802.11 b/g/n
Wireless CPE

User Manual

Before Start to Configure

The WLAN Broadband Router is delivered with the following factory default parameters on the Ethernet LAN interfaces.

Default IP Address: **192.168.1.254**
Default IP subnet mask: **255.255.255.0**
WEB login User Name: <empty> WEB login Password: <empty>

The device has three operation modes (Gateway/Bridge/WISP). The default IP addresses for the device are 192.168.1.254, so you need to make sure the IP address of your PC is in the same subnet as the device, such as 192.168.1.X.

It will take about 55 seconds to complete the boot up sequence after power on.

Prepare your PC to configure the WLAN Broadband Router

For OS of Microsoft Windows 95/ 98/ Me:

1. Click the ***Start*** button and select ***Settings***, then click ***Control Panel***. The ***Control Panel*** window will appear.
   Note: Windows Me users may not see the Network control panel. If so, *select* **View all Control Panel options** on the left side of the window
2. Move mouse and double-click the right button on ***Network*** icon. The ***Network*** window will appear.
3. Check the installed list of ***Network Components***. If TCP/IP is not installed, click the ***Add*** button to install it; otherwise go to step 6.
4. Select ***Protocol*** in the ***Network Component Type*** dialog box and click ***Add*** button.
5. Select ***TCP/IP*** in ***Microsoft*** of ***Select Network Protocol*** dialog box then click OK button to install the TCP/IP protocol, it may need the Microsoft Windows CD to complete the installation. Close and go back to ***Network*** dialog box after the TCP/IP installation.
6. Select ***TCP/IP*** and click the ***properties*** button on the ***Network*** dialog box.
7. Select ***Specify an IP address*** and type in values as following example.
   - IP Address: **192.168.1.1**, any IP address within 192.168.1.1 to 192.168.1.253 is good to connect the Wireless LAN Access Point.
   - IP Subnet Mask: **255.255.255.0**
8. Click OK and reboot your PC after completes the IP parameters setting.

For OS of Microsoft Windows 2000, XP:

1. Click the ***Start*** button and select ***Settings***, then click ***Control Panel***. The ***Control Panel*** window will appear.
2. Move mouse and double-click the right button on ***Network and Dial-up Connections*** icon. Move mouse and double-click the ***Local Area Connection*** icon. The ***Local Area Connection*** window will appear. Click ***Properties*** button in the ***Local Area Connection*** window.
3. Check the installed list of ***Network Components***. If TCP/IP is not installed, click the ***Add*** button to install it; otherwise go to step 6.
4. Select ***Protocol*** in the ***Network Component Type*** dialog box and click ***Add*** button.
5. Select ***TCP/IP*** in ***Microsoft*** of ***Select Network Protocol*** dialog box then click OK button to install the TCP/IP protocol, it may need the Microsoft Windows CD to complete the installation. Close and go back to ***Network*** dialog box after the TCP/IP installation.
6. Select ***TCP/IP*** and click the ***properties*** button on the ***Network*** dialog box.
7. Select ***Specify an IP address*** and type in values as following example.
   - IP Address: **192.168.1.1**, any IP address within 192.168.1.1 to 192.168.1.253 is good to connect the Wireless LAN Access Point.
   - IP Subnet Mask: **255.255.255.0**
8. Click OK to completes the IP parameters setting.

For OS of Microsoft Windows NT:

1. Click the ***Start*** button and select ***Settings***, then click ***Contro*****l** ***Pane*****l**. The ***Contro*****l** ***Pane*****l** window will appear.
2. Move mouse and double-click the right button on ***Network*** icon. The ***Network*** window will appear. Click ***Protoco*****l** tab from the ***Network*** window.
3. Check the installed list of ***Network Protoco*****l** window. If TCP/IP is not installed, click the ***Add*** button to install it; otherwise go to step 6.
4. Select ***Protoco*****l** in the ***Network Component Type*** dialog box and click ***Add*** button.
5. Select ***TCP/IP*** in ***Microsoft*** of ***Se*****l*****ect Network Protoco*****l** dialog box then click OK button to install the TCP/IP protocol, it may need the Microsoft Windows CD to complete the installation. Close and go back to ***Network*** dialog box after the TCP/IP installation.
6. Select ***TCP/IP*** and click the ***properties*** button on the ***Network*** dialog box.
7. Select ***Specify an IP address*** and type in values as following example.
   - IP Address: **192.168.1.1**, any IP address within 192.168.1.1 to 192.168.1.253 is good to connect the Wireless LAN Access Point.
   - IP Subnet Mask: **255.255.255.0**
8. Click OK to complete the IP parameters setting.

For OS of Microsoft Windows Vista and Windows 7

1. Click ***Start*** Button and select ***Control Panel***, the ***Control Panel*** windows pop up.
2. From ***Network and Internet*** category choose ***View network status and tasks***.
3. Select ***Change adapter settings***, right click ***Local Area Connection***, select ***Properties***
4. From popup menu in ***Networking*** tab select ***Internet Protocol Version 4 (TCP/IPv4)*** then click ***Properties***.
5. Check ***Use the following IP address*** then Specify IP address as following example.
   - Enter your IP Address; the IP Address can be any number within the range from **192.168.1.1** to **192.168.1.253**.
   - IP Subnet Mask: **255.255.255.0**

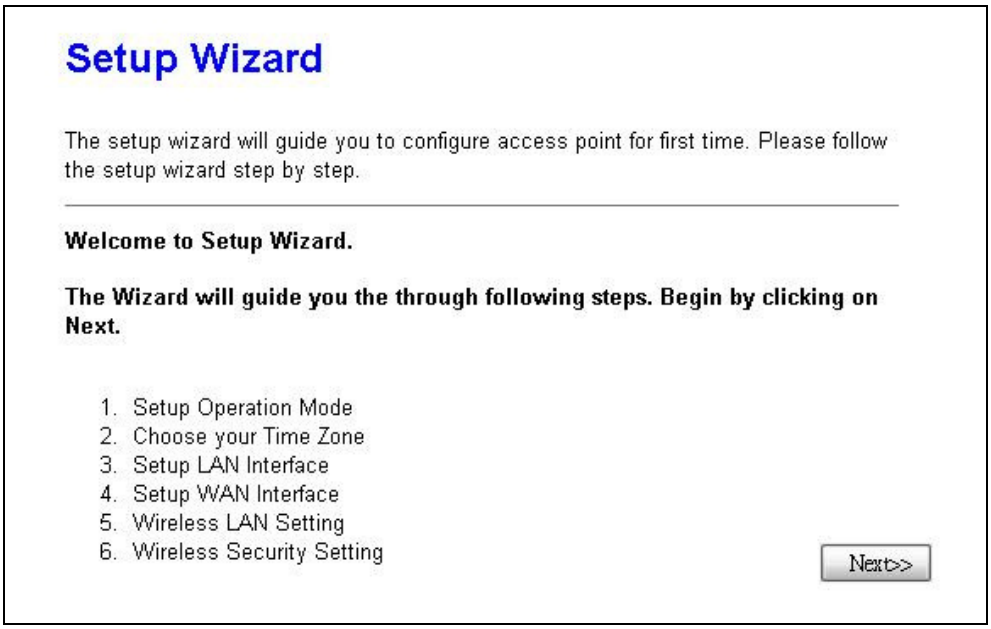
Click OK to complete the IP parameters setting.

This page shows the current status and some basic settings of the device, includes system, wireless, Ethernet LAN and WAN configuration information.

Item	Description
Uptime	It shows the duration since WLAN Broad
Firmware version	It shows the firmware version of WLAN Broadband Router.
Wireless Configuration	
Mode	It shows wireless operation mode
Band	It shows wireless operation mode
SSID	It shows the SSID of this WLAN Broadband Router. The SSID is the unique name of WLAN Broadband Router and shared among its service area, so all devices attempts to join the same wireless network can identify it.
Channel Number	It shows the wireless channel connected currently.
Encryption	It shows the status of encryption function.
BSSID	It shows the BSSID address of the WLAN Broadband Router. BSSID is a six-byte address.
Associated Clients	It shows the number of connected clients (or stations, PCs).
TCP/IP configuration	
Attain IP Protocol	It shows type of connection.
IP Address	It shows the IP address of LAN interfaces of WLAN Broadband Router.
Subnet Mask	It shows the IP subnet mask of LAN interfaces of WLAN Broadband Router.
Default Gateway	It shows the default gateway setting for LAN interfaces outgoing data packets.
DHCP Server	It shows the DHCP server is enabled or not.
MAC Address	It shows the MAC address of LAN interfaces of WLAN Broadband Router.
WAN configuration	
Attain IP Protocol	It shows how the WLAN Broadband Router gets the IP address. The IP address can be set manually to a fixed one or set dynamically by DHCP server or attain IP by PPPoE / PPTP connection.
IP Address	It shows the IP address of WAN interface of WLAN Broadband Router.
Subnet Mask	It shows the IP subnet mask of WAN interface of WLAN Broadband Router.
Default Gateway	It shows the default gateway setting for WAN interface outgoing data packets.
DNS1/DNS2/DNS3	It shows the DNS server information.
MAC Address	It shows the MAC address of WAN interface of WLAN Broadband Router.

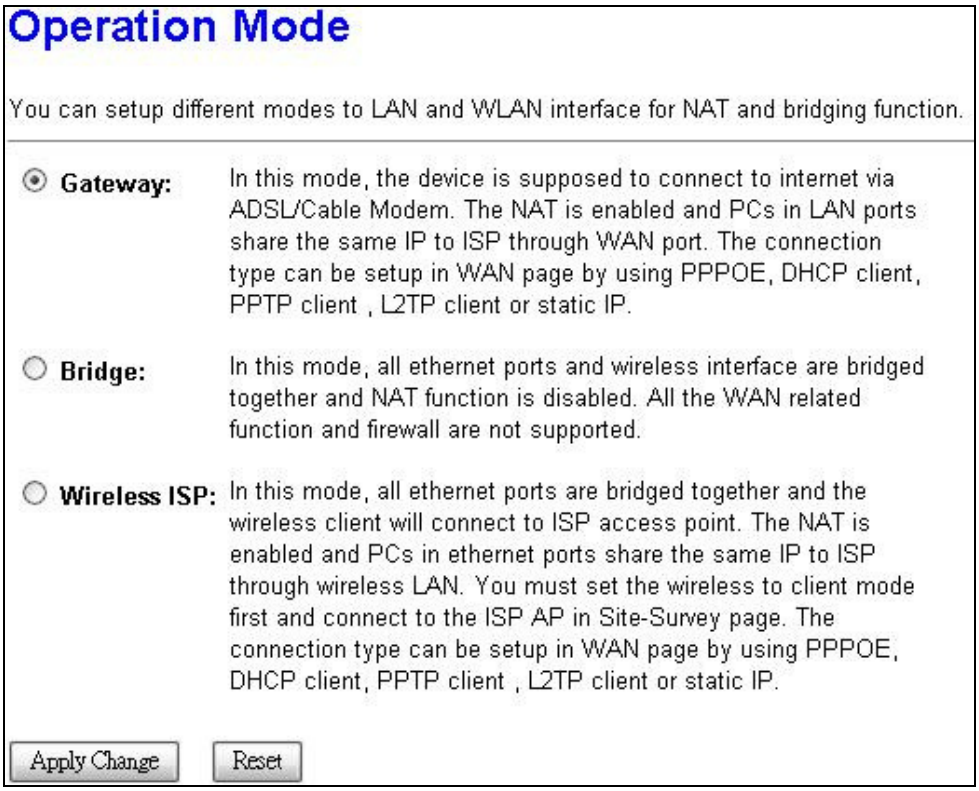
Setup Wizard

This page guides you to configure wireless broadband router for first time


Setup Wizard
The setup wizard will guide you to configure access point for first time. Please follow the setup wizard step by step.
Welcome to Setup Wizard.
The Wizard will guide you the through following steps. Begin by clicking on Next.
1. Setup Operation Mode
2. Choose your Time Zone
3. Setup LAN Interface
4. Setup WAN Interface
5. Wireless LAN Setting
6. Wireless Security Setting
Next>>

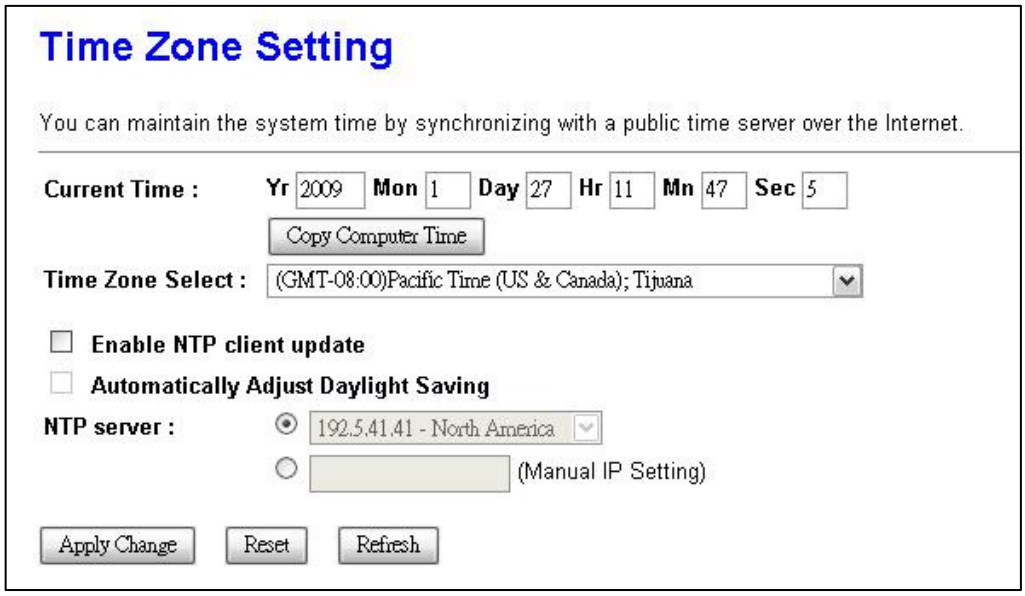
Operation Mode

This page followed by Setup Wizard page to define the operation mode.


Operation Mode
You can setup different modes to LAN and WLAN interface for NAT and bridging function.
Gateway: In this mode, the device is supposed to connect to internet via ADSL/Cable Modem. The NAT is enabled and PCs in LAN ports share the same IP to ISP through WAN port. The connection type can be setup in WAN page by using PPPOE, DHCP client, PPTP client , L2TP client or static IP.
Bridge: In this mode, all ethernet ports and wireless interface are bridged together and NAT function is disabled. All the WAN related function and firewall are not supported.
Wireless ISP: In this mode, all ethernet ports are bridged together and the wireless client will connect to ISP access point. The NAT is enabled and PCs in ethernet ports share the same IP to ISP through wireless LAN. You must set the wireless to client mode first and connect to the ISP AP in Site-Survey page. The connection type can be setup in WAN page by using PPPOE, DHCP client, PPTP client , L2TP client or static IP.
Apply Change
Reset

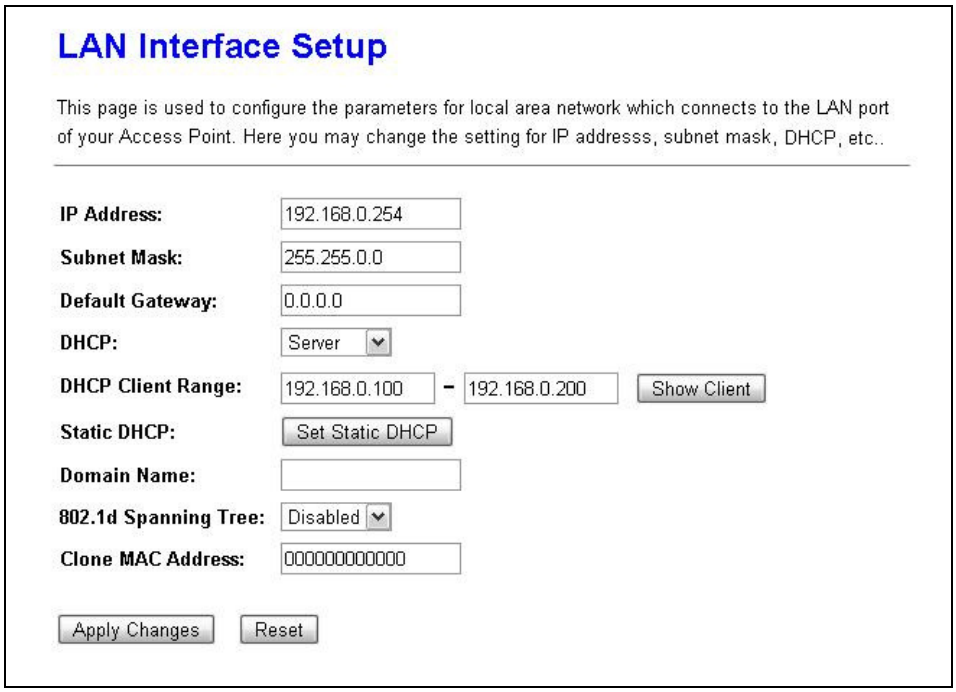
Time Zone Setting

This page is used to enable and configure NTP client


Time Zone Setting
You can maintain the system time by synchronizing with a public time server over the Internet.
Current Time :
Yr 2009 Mon 1 Day 27 Hr 11 Mn 47 Sec 5
Copy Computer Time
Time Zone Select :
(GMT-08:00)Pacific Time (US & Canada); Tijuana
Enable NTP client update
Automatically Adjust Daylight Saving
NTP server :
192.5.41.41 - North America
(Manual IP Setting)
Apply Change
Reset
Refresh

LAN Interface Setup

This page is used to configure local area network IP address and subnet mask

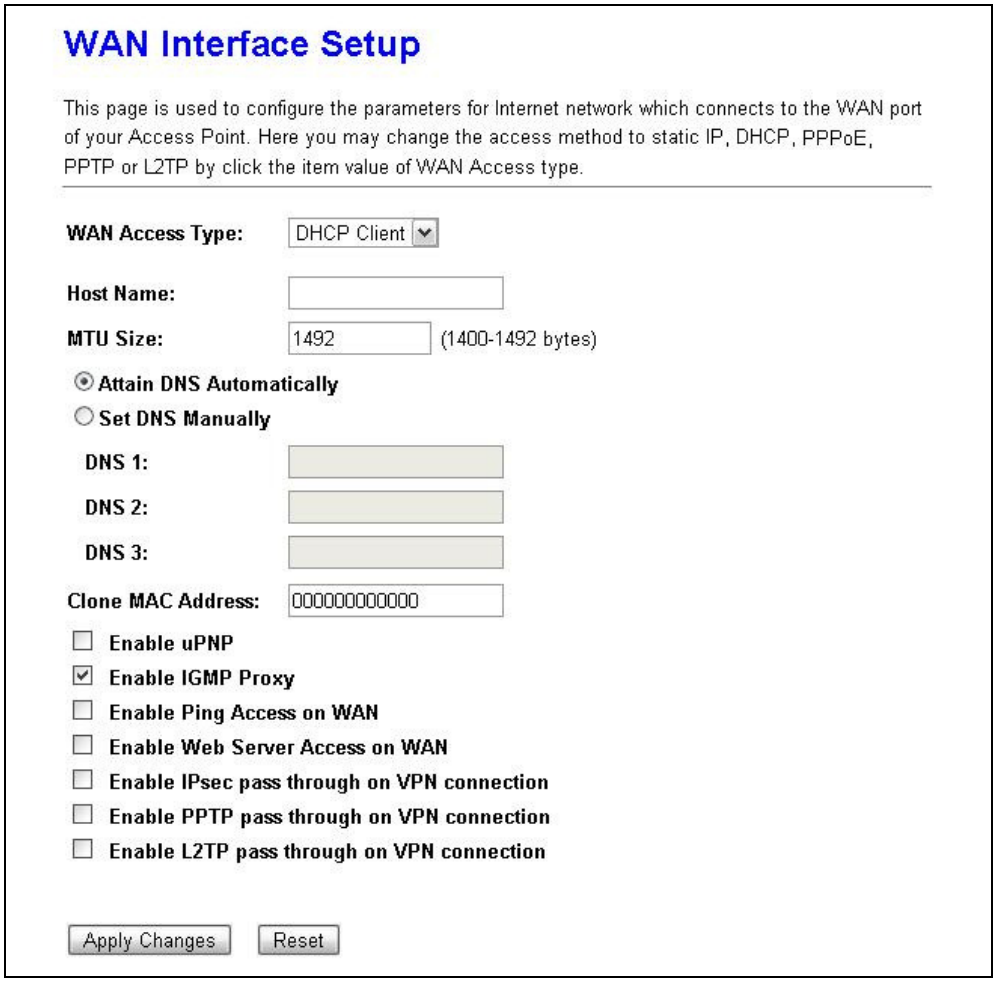


Item	Description
IP Address	Fill in the address of LAN interfaces of this WLAN Access Point.
Subnet Mask	Fill in the subnet mask of LAN interfaces of this WLAN Access Point.
Default Gateway	Fill in the default gateway for LAN interfaces out going data packets.
DHCP	Click to select Disabled, Client or Server in different operation mode of wireless Access Point.
DHCP Client Range	Fill in the start IP address and end IP address to allocate a range of IP addresses; client with DHCP function set will be assigned an IP address from the range.

Show Client	Click to open the active DHCP Client Table window that shows the active clients with their assigned IP address, MAC address and time expired information.[Server mode only]
Static DHCP	Select enable or disable the Static DHCP function from pull-down menu[Server mode only]
Set Static DHCP	Manual setup Static DHCP IP address for specific MAC address.[Server mode only]
Domain Name	Assign Domain Name and dispatch to DHCP clients. It is optional field.
802.1d Spanning Tree	Select enable or disable the IEEE 802.1d Spanning Tree function from pull-down menu.
Clone MAC Address	Fill in the MAC address that is the MAC address to be cloned
Apply Changes	Click the Apply Changes button to complete the new configuration setting
Reset	Click the reset button to abort change and recover the previous configuration setting.

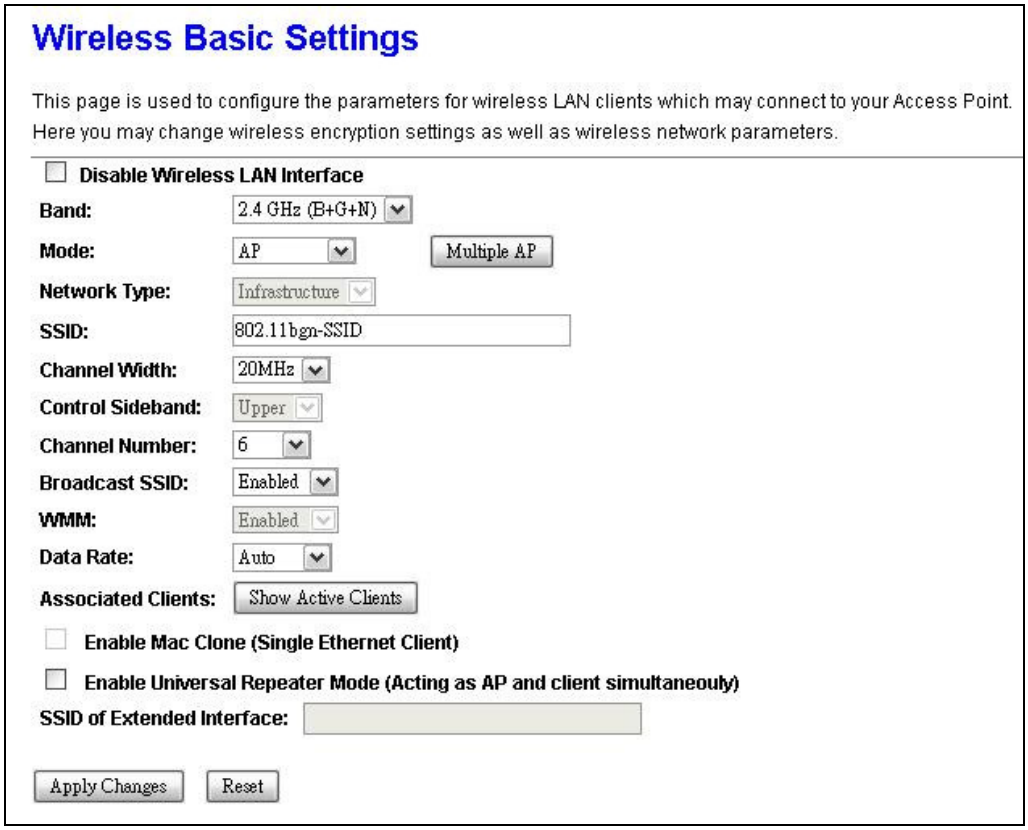
WAN Interface Setup

This page is used to configure WAN access type


WAN Interface Setup
This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE, PPTP or L2TP by click the item value of WAN Access type.
WAN Access Type:
DHCP Client
Host Name:
MTU Size:
1492
(1400-1492 bytes)
Attain DNS Automatically
Set DNS Manually
DNS 1:
DNS 2:
DNS 3:
Clone MAC Address:
000000000000
Enable uPNP
Enable IGMP Proxy
Enable Ping Access on WAN
Enable Web Server Access on WAN
Enable IPsec pass through on VPN connection
Enable PPTP pass through on VPN connection
Enable L2TP pass through on VPN connection
Apply Changes
Reset

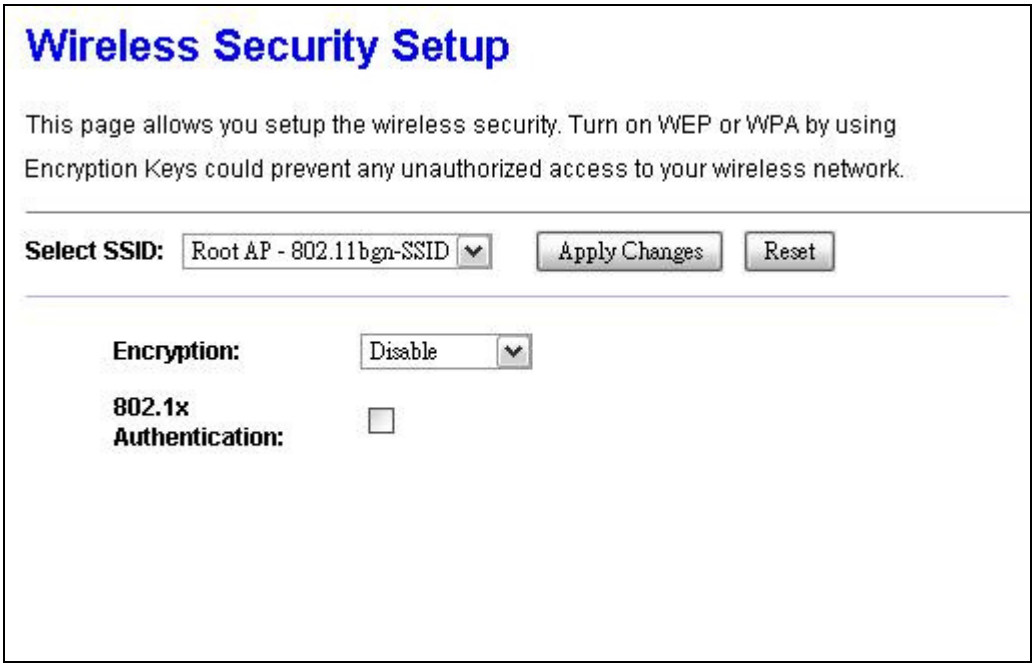
Wireless Basic Settings

This page is used to configure basic wireless parameters like Band, Mode, Network Type SSID, Channel Number, Enable Mac Clone (Single Ethernet Client).



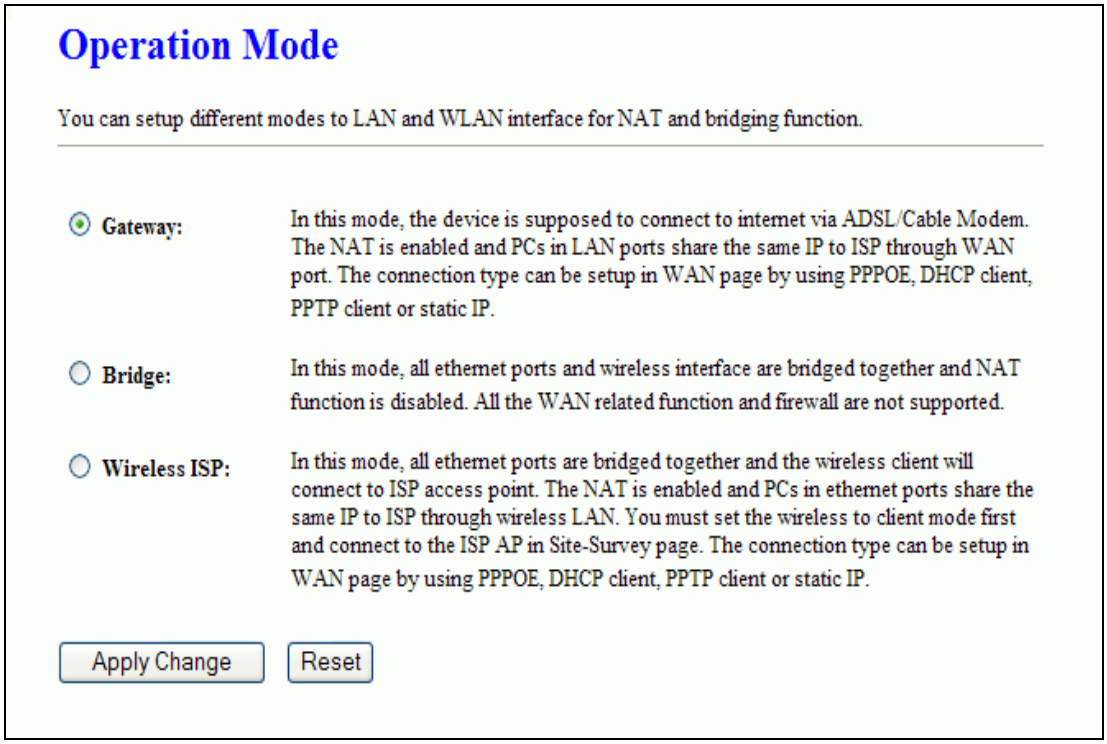
Wireless Security Setup

This page is used to configure wireless security


Wireless Security Setup
This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.
Select SSID:
Root AP - 802.11bgn-SSID
Apply Changes
Reset
Encryption:
Disable
802.1x Authentication:

Operation Mode

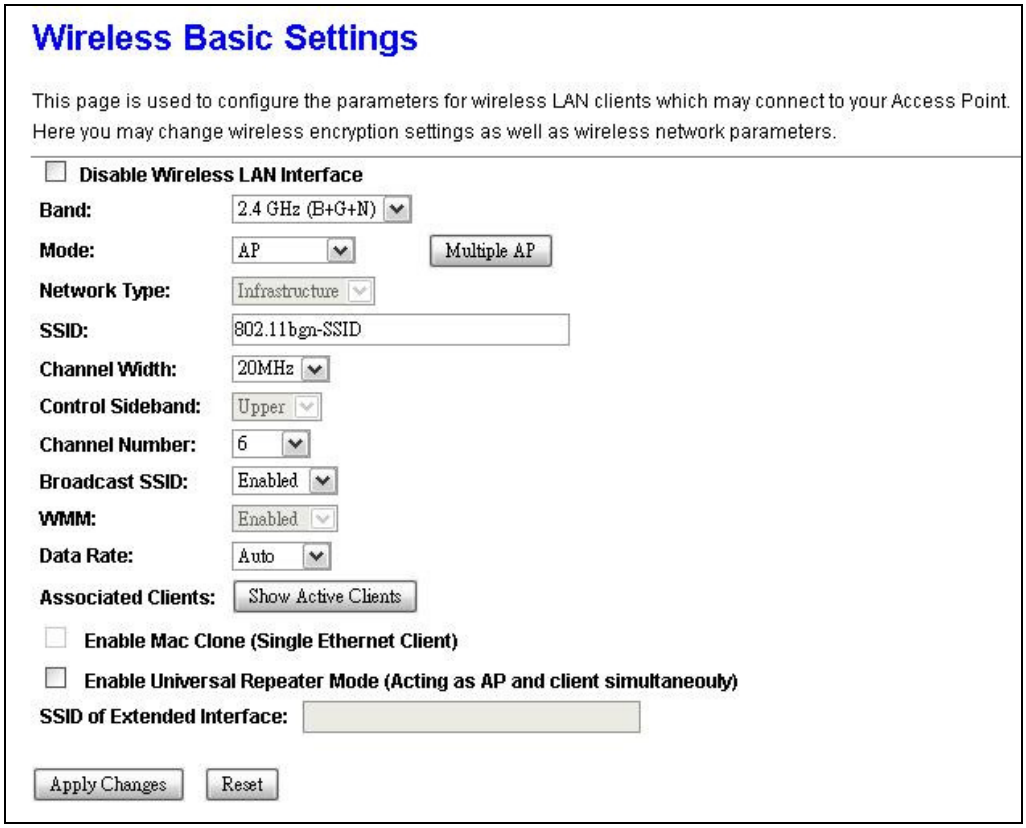
This page is used to configure which mode wireless broadband router acts


Operation Mode
You can setup different modes to LAN and WLAN interface for NAT and bridging function.
Gateway:
In this mode, the device is supposed to connect to internet via ADSL/Cable Modem. The NAT is enabled and PCs in LAN ports share the same IP to ISP through WAN port. The connection type can be setup in WAN page by using PPPOE, DHCP client, PPTP client or static IP.
Bridge:
In this mode, all ethernet ports and wireless interface are bridged together and NAT function is disabled. All the WAN related function and firewall are not supported.
Wireless ISP:
In this mode, all ethernet ports are bridged together and the wireless client will connect to ISP access point. The NAT is enabled and PCs in ethernet ports share the same IP to ISP through wireless LAN. You must set the wireless to client mode first and connect to the ISP AP in Site-Survey page. The connection type can be setup in WAN page by using PPPOE, DHCP client, PPTP client or static IP.
Apply Change
Reset

Item	Description
Gateway	Traditional gateway configuration. It always connects internet via ADSL/Cable Modem. LAN interface, WAN interface, Wireless interface, NAT and Firewall modules are applied to this mode
Bridge	Each interface (LAN, WAN and Wireless) regards as bridge. NAT, Firewall and all router's functions are not supported
Wireless ISP	Switch Wireless interface to WAN port and all Ethernet ports in bridge mode. Wireless interface can do all router's functions
Apply Changes	Click the ***Apply Changes*** button to complete the new configuration setting.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

Wireless - Basic Settings

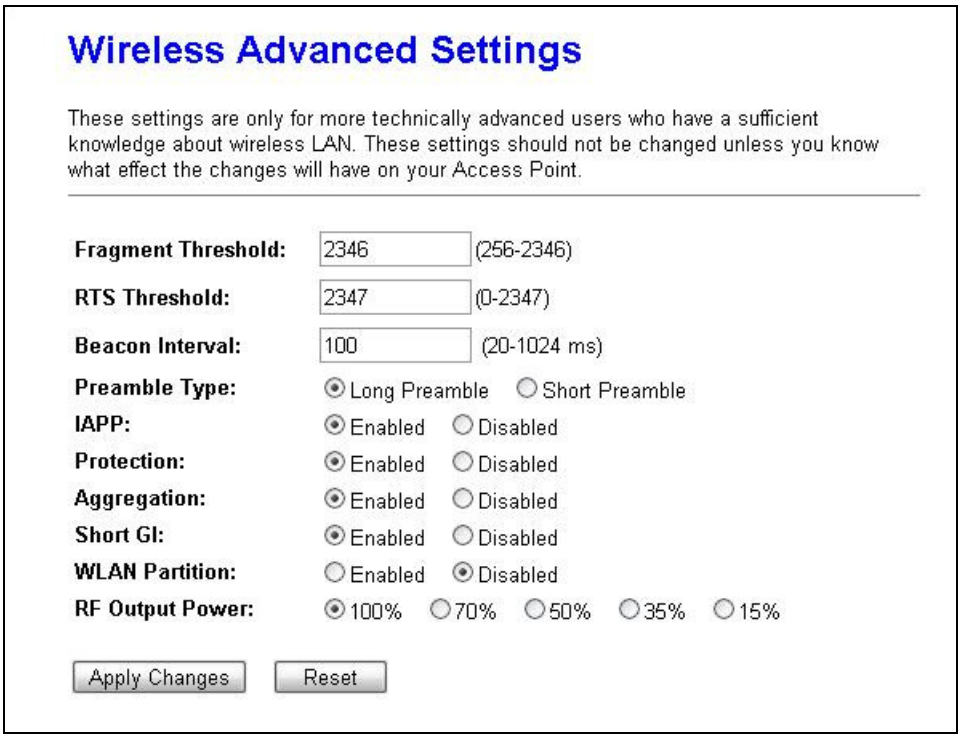
This page is used to configure the parameters for wireless LAN clients that may connect to your Broadband Router. Here you may change wireless encryption settings as well as wireless network parameters.



Item	Description
Disable Wireless LAN Interface	Click on to disable the wireless LAN data transmission.
Band	Click to select 2.4GHz(B) / 2.4GHz(G) /2.4GHz(B+G)
Mode	Click to select the WLAN AP / Client / WDS / AP+WDS wireless mode.
Multiple AP	Click to enable multiple AP.
Network Type	While network is selected to be client. Click to select network type infrastructure or Ad-Hoc
SSID	It is the wireless network name. The SSID can be 32 bytes long.
Channel width	Select the operational bandwidth 20MHz or 40MHz (802.11n band only)
Control Sideband	Select the sideband with upper or lower for channel width 40MHz.
Channel Number	Select the wireless communication channel from pull-down menu.
Broadcast SSID	Click to enable or disable the SSID broadcast function
WMM	Click to enable or disable WMM function
Data Rate	Select transmission data rate from pull-down menu. Data rate can be auto select, 1M to 54Mbps or MCS.
Associated Clients	Click the ***Show Active Clients*** button to open Active Wireless Client Table that shows the MAC address, transmit-packet, receive-packet and transmission-rate for each associated wireless client.
Enable Mac Clone (Single Ethernet Client)	Take Laptop NIC MAC address as wireless client MAC address. **[Client Mode only]**
Enable Universal Repeater Mode	Click to enable Universal Repeater Mode. (Acting as AP and client simultaneously in this mode).
SSID of Extended Interface	Assign SSID when enables Universal Repeater Mode.
Apply Changes	Click the ***Apply Changes*** button to complete the new configuration setting.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

Wireless - Advanced Settings

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your WLAN Broadband Router.


Wireless Advanced Settings
These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your Access Point.
Fragment Threshold: 2346 (256-2346)
RTS Threshold: 2347 (0-2347)
Beacon Interval: 100 (20-1024 ms)
Preamble Type: Long Preamble Short Preamble
IAPP: Enabled Disabled
Protection: Enabled Disabled
Aggregation: Enabled Disabled
Short GI: Enabled Disabled
WLAN Partition: Enabled Disabled
RF Output Power: 100% 70% 50% 35% 15%
Apply Changes
Reset

Item	Description
Fragment Threshold	Set the data packet fragmentation threshold, value can be written between 256 and 2346 bytes.
RTS Threshold	Set the RTS Threshold, value can be written between 0 and 2347 bytes.
Beacon Interval	Set the Beacon Interval, value can be written between 20 and 1024ms.
Preamble Type	Click to select the ***Long Preamble*** or ***Short Preamble*** support on the wireless data packet transmission.
IAPP	Click to enable or disable the IAPP function.
Protection	Protection is for neighboring 802.11b wireless network. Select disable to reduce the adverse affect of legacy wireless network 802.11n performance. This option is available only when 802.11 mode is set to 802.11n only
Aggregation	Click to enable or disable aggregation function.
Short GI	Click to enable or disable short Guard Intervals function
WLAN Partition	Enabling WLAN Partition prevents associated wireless clients from communicating with each other.
RF Output power	To adjust transmission power level.

Wireless - Security Setup

This page allows you setup the wireless security. Turn on WEP, WPA; WPA2 by using encryption keys could prevent any unauthorized access to your wireless network.

Wireless Security Setup
This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.
Select SSID:
Root AP - 802.11bgn-SSID
Apply Changes
Reset
Encryption:
Disable
802.1x Authentication:

Item	Description
Select SSID	Select SSID to be encrypted from multiple APs.
Encryption	Select the encryption supported over wireless access. The encryption method can be None, WEP, WPA(TKIP), WPA2 or WPA2 Mixed
Use 802.1x Authentication	While Encryption is selected to be WEP. Click the check box to enable IEEE 802.1x authentication function.
Apply Changes	Click the ***Apply Changes*** button to complete the new configuration setting.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

Wireless - Access Control

If you enable wireless access control, only those clients whose wireless MAC addresses are in the access control list will be able to connect to your Access Point. When this option is enabled, no wireless clients will be able to connect if the list contains no entries.

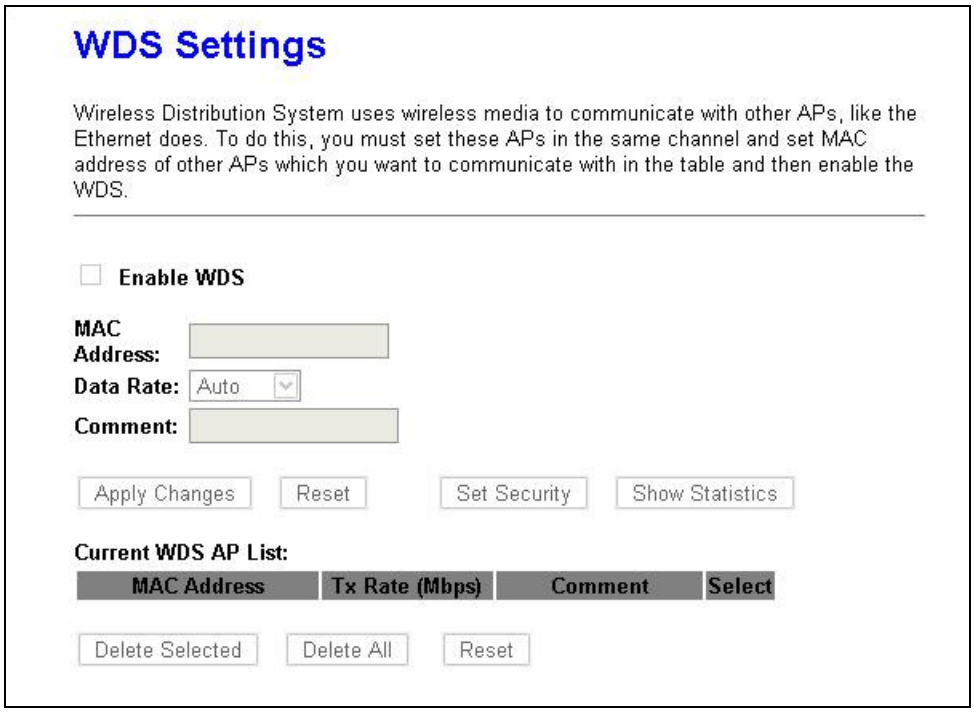
Wireless Access Control
If you choose 'Allowed Listed', only those clients whose wireless MAC addresses are in the access control list will be able to connect to your Access Point. When 'Deny Listed' is selected, these wireless clients on the list will not be able to connect the Access Point.
Wireless Access Control Mode:
Disable
MAC Address:
Comment:
Apply Changes
Reset
Current Access Control List:
MAC Address
Comment
Select
Delete Selected
Delete All
Reset

Item	Description
Wireless Access Control Mode	Click the ***Disabled***, ***Allow Listed*** or ***Deny Listed*** of drop down menu choose wireless access control mode. This is a security control function; only those clients registered in the access control list can link to this WLAN Broadband Router.
MAC Address	Fill in the MAC address of client to register this WLAN Broadband Router access capability.

Comment	Enter notes for the registered client.
Apply Changes	Click the ***Apply Changes*** button to register the client to new configuration setting.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.
Current Access Control List	It shows the registered clients that are allowed to link to this WLAN Broadband Router.
Delete Selected	Click to delete the selected clients that will be access right removed from this WLAN Broadband Router.
Delete All	Click to delete all the registered clients from the access allowed list.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

WDS Settings

Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other AP that you want to communicate with in the table and then enable the WDS.


WDS Settings
Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other APs which you want to communicate with in the table and then enable the WDS.
Enable WDS
MAC Address:
Data Rate:
Auto
Comment:
Apply Changes
Reset
Set Security
Show Statistics
Current WDS AP List:
MAC Address
Tx Rate (Mbps)
Comment
Select
Delete Selected
Delete All
Reset

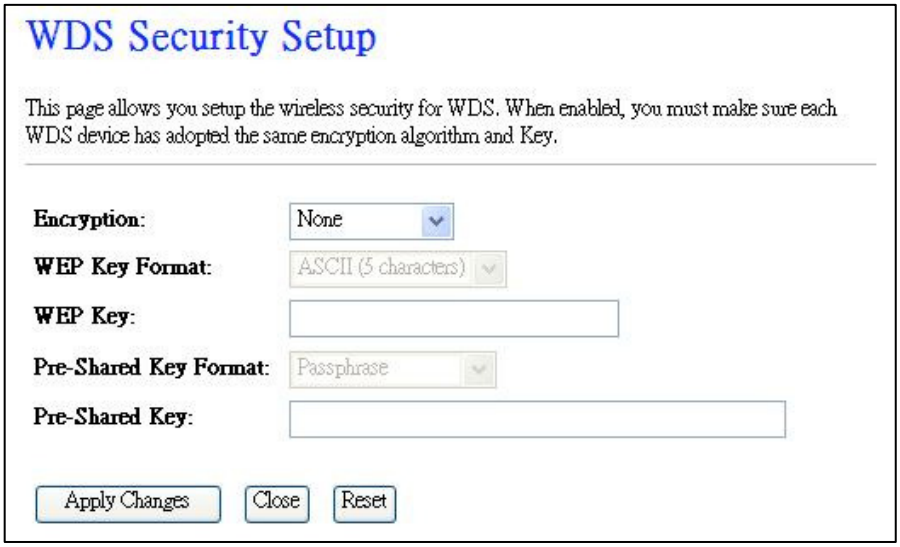
Item	Description
Enable WDS	Click the ***Disabled***, ***Allow Listed*** or ***Deny Listed*** of drop down menu choose wireless access control mode. This is a security control function; only those clients registered in the access control list can link to this WLAN Broadband Router.
MAC Address	Fill in the MAC address of client to register this WLAN Broadband Router access capability.
Data Rate	Select transmission data rate from pull down menu. Data rate can be auto-selected, 1Mbps to 54Mbps or MCS.
Comment	Fill in the comments for the registered client.
Apply Changes	Click the ***Apply Changes*** button to register the client to new configuration setting.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.
Set Security	Click button to configure wireless security like ***WEP(64bits), WEP(128bits), WPA(TKIP), WPA2(AES)***

	or ***None***
Show Statistics	It shows the TX, RX packets, rate statistics
Delete Selected	Click to delete the selected clients that will be removed from the wireless distribution system.
Delete All	Click to delete all the registered APs from the wireless distribution system allowed list.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

It shows the registered clients that are allowed to link to this WLAN Broadband Router.

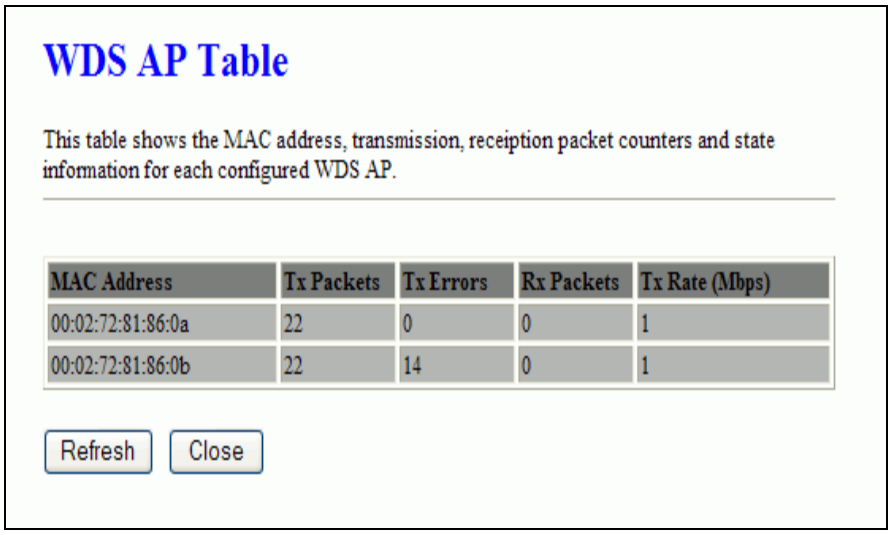
WDS Security Setup

Requirement: Set [Wireless]->[Basic Settings]->[Mode]->AP+WDS
This page is used to configure the wireless security between APs.



WDS AP Table

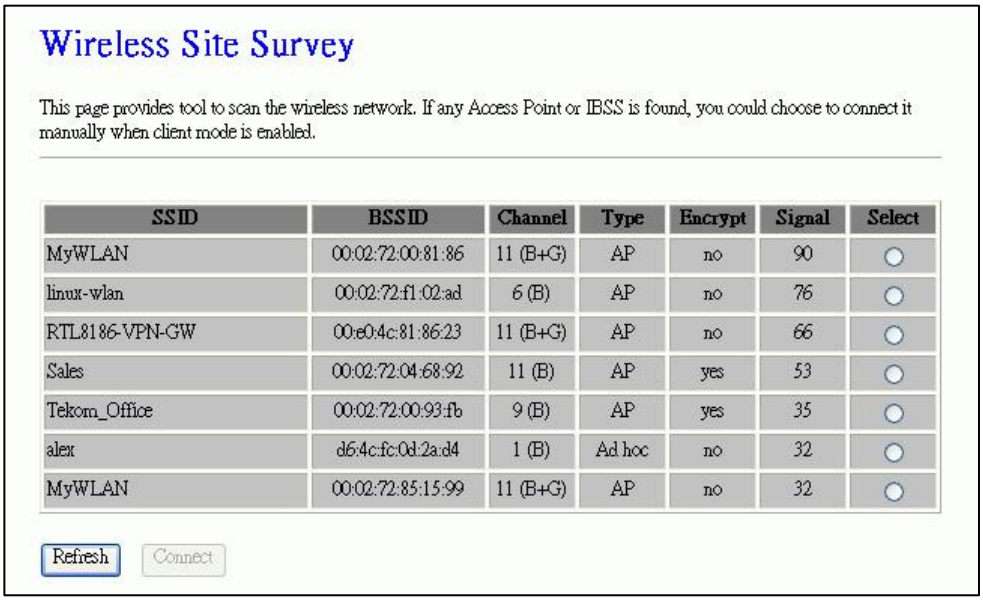
This page is used to show WDS statistics



Item	Description
MAC Address	It shows the MAC Address within WDS.
Tx Packets	It shows the statistic count of sent packets on the wireless LAN interface.
Tx Errors	It shows the statistic count of error sent packets on the Wireless LAN interface.
Rx Packets	It shows the statistic count of received packets on the wireless LAN interface.
Tx Rate (Mbps)	It shows the wireless link rate within WDS.
Refresh	Click to refresh the statistic counters on the screen.
Close	Click to close the current window.

Site Survey

This page is used to scan and connect nearby APs when operate at client mode.



Item	Description
SSID	It shows the SSID of AP.
BSSID	It shows BSSID of AP.
Channel	It show the current channel of AP occupied.
Type	It shows which type of connection to be connect, infrastructure (AP) or ad-hoc.
Encrypt	It shows the encryption status.

Signal	It shows signal strength (expressed in percentage) of current AP.
Refresh	Click the ***Refresh*** button to re-scan site survey on the screen.
Connect	Click the ***Connect*** button to establish connection.

WPS

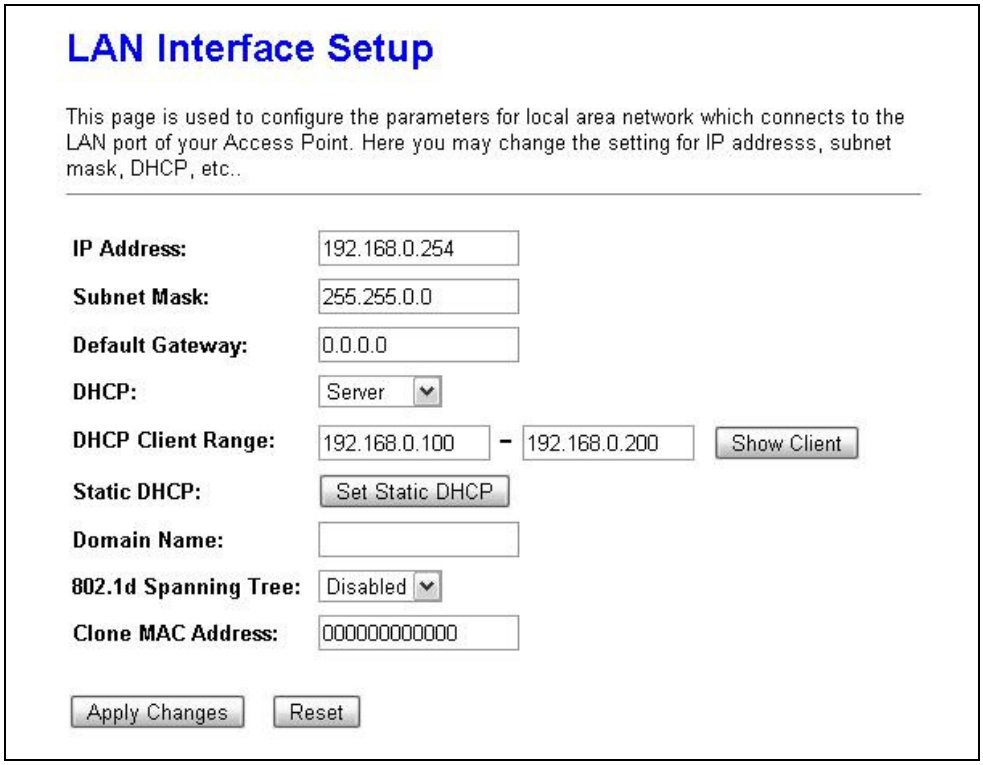
This page allows you to change the setting for WPS (Wi-Fi Protected Setup). Using this feature could let your wireless client automatically synchronize its setting and connect to the Access Point in a minute without any hassle.

Wi-Fi Protected Setup
This page allows you to change the setting for WPS (Wi-Fi Protected Setup). Using this feature could let your wireless client automically syncronize its setting and connect to the Access Point in a minute without any hassle.
Disable WPS
WPS Status:
Configured
UnConfigured
Reset to UnConfigured
Self-PIN Number:
08904089
Push Button Configuration:
Start PBC
Apply Changes
Reset
Client PIN Number:
Start PIN

Item	Description
Disable WPS	Click on to disable the Wi-Fi Protected Setup function
WPS Status	Show WPS status is Configured or Unconfigured
Self-PIN Number	Fill in the PIN Number of AP to register the wireless distribution system access capability.
Push Button Configuration	The Start PBC button provides tool to scan the wireless network. If any Access Point or IBSS is found, you could connect it automatically when client join PBC mode.
Apply Changes	Click the Apply Changes button to complete the new configuration setting.
Reset	Click the Reset button to abort change and recover the previous configuration setting.
Client PIN Number	Fill in the Client PIN Number from your Client sites.

LAN Interface Setup

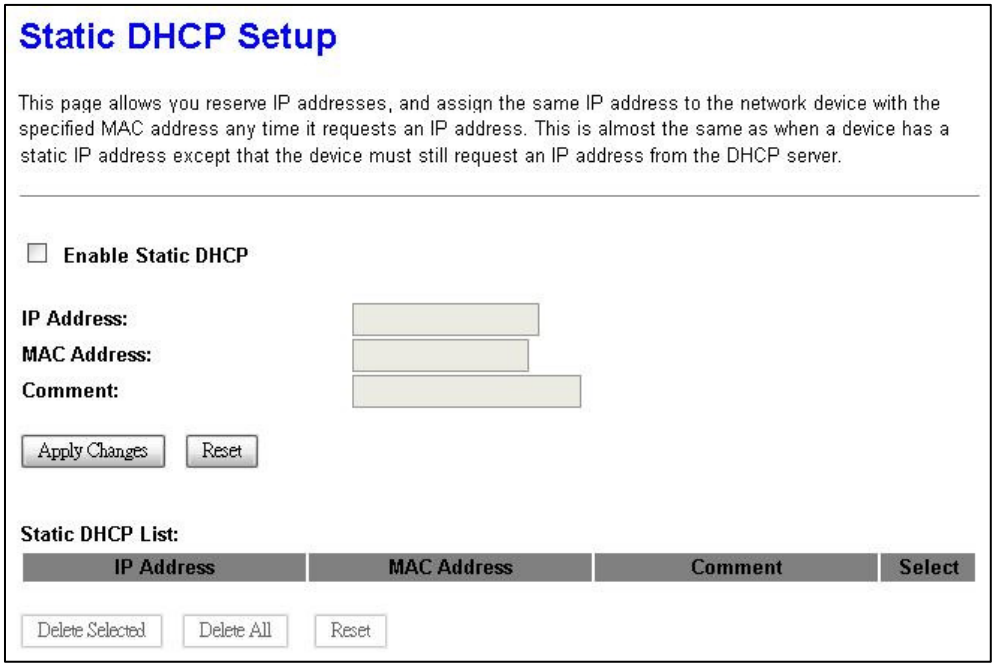
This page is used to configure the parameters for local area network that connects to the LAN ports of your WLAN Broadband Router. Here you may change the setting for IP address, subnet mask, DHCP, etc.



Item	Description
IP Address	Fill in the IP address of LAN interfaces of this WLAN Access Point.
Subnet Mask	Fill in the subnet mask of LAN interfaces of this WLAN Access Point.
Default Gateway	Fill in the default gateway for LAN interfaces out going data packets.
DHCP	Click to select ***Disabled***, ***Client*** or ***Server*** in different operation mode of wireless Access Point.
DHCP Client Range	Fill in the start IP address and end IP address to allocate a range of IP addresses; client with DHCP function set will be assigned an IP address from the range.
Show Client	Click to open ***Active DHCP Client Table*** window that shows current active clients with their assigned IP address, MAC address and expire time information **[Server mode only]**
Static DHCP	Select to enable or disable Static DHCP from pull-down menu **[Server mode only]**
Domain Name	Assign Domain Name and dispatch to DHCP clients. It is optional field.
802.1d Spanning Tree	Select to enable or disable the IEEE 802.1d Spanning Tree function from pull-down menu.
Clone MAC Address	Fill in the MAC address that is the MAC address to be cloned.
Apply Changes	Click the ***Apply Changes*** button to complete the new configuration setting.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

Static DHCP Setup

This page allows you reserve IP addresses, and assign the same IP address to the network device with the specified MAC address any time it requests an IP address. This is almost the same as when a device has a static IP address except that the device must still request an IP address from the DHCP server

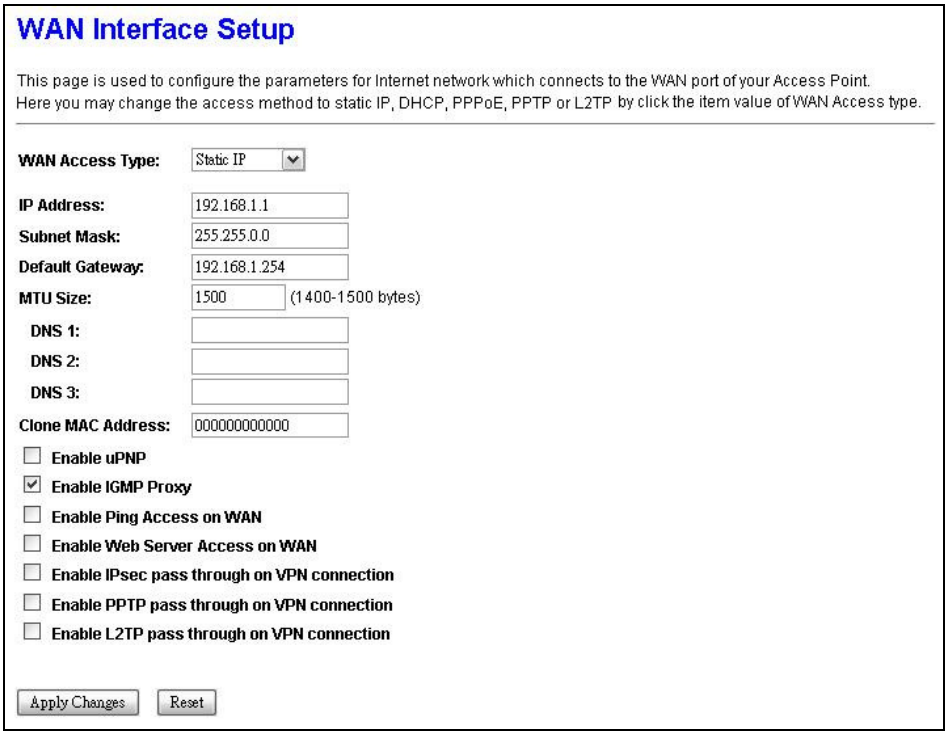

Static DHCP Setup
This page allows you reserve IP addresses, and assign the same IP address to the network device with the specified MAC address any time it requests an IP address. This is almost the same as when a device has a static IP address except that the device must still request an IP address from the DHCP server.
Enable Static DHCP
IP Address:
MAC Address:
Comment:
Apply Changes
Reset
Static DHCP List:
IP Address
MAC Address
Comment
Select
Delete Selected
Delete All
Reset

Item	Description
Enable Static DHCP	Click to enable ***Static DHCP***
IP Address	Enter the Static IP Address in the **IP Address** field
MAC Address	Enter the MAC address of the corresponding Client in the **MAC Address** field
Comment	Take notes of the setting.
Apply Changes	Click the ***Apply Changes*** button to complete the change
Static DHCP List	List mapping of static IP address to corresponding clients.
IP Address	Assigned static IP address
MAC address	MAC address of corresponding client
Comment	Notes of the mapping
Select	Click on checkbox if you want to delete from the list.
Delete Selected	Click to delete current selected from the list.
Delete All	Delete all of the entries from the list.
Reset	Uncheck all of previous selections.

WAN Interface Setup

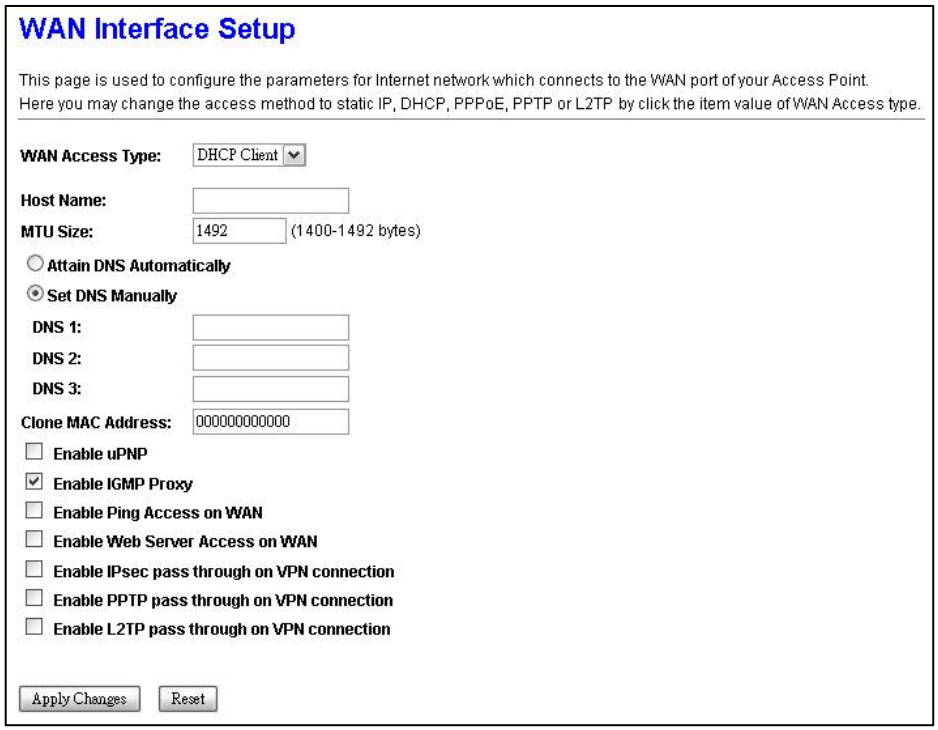
This page is used to configure the parameters for wide area network that connects to the WAN port of your WLAN Broadband Router. Here you may change the access method to ***Static IP***, ***DHCP***, ***PPPoE*** or ***PPTP*** by click the item value of **WAN Access Type**.

Static IP


WAN Interface Setup
This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point.
Here you may change the access method to static IP, DHCP, PPPoE, PPTP or L2TP by click the item value of WAN Access type.
WAN Access Type:
Static IP
IP Address:
192.168.1.1
Subnet Mask:
255.255.0.0
Default Gateway:
192.168.1.254
MTU Size:
1500
(1400-1500 bytes)
DNS 1:
DNS 2:
DNS 3:
Clone MAC Address:
000000000000
Enable uPNP
Enable IGMP Proxy
Enable Ping Access on WAN
Enable Web Server Access on WAN
Enable IPsec pass through on VPN connection
Enable PPTP pass through on VPN connection
Enable L2TP pass through on VPN connection
Apply Changes
Reset

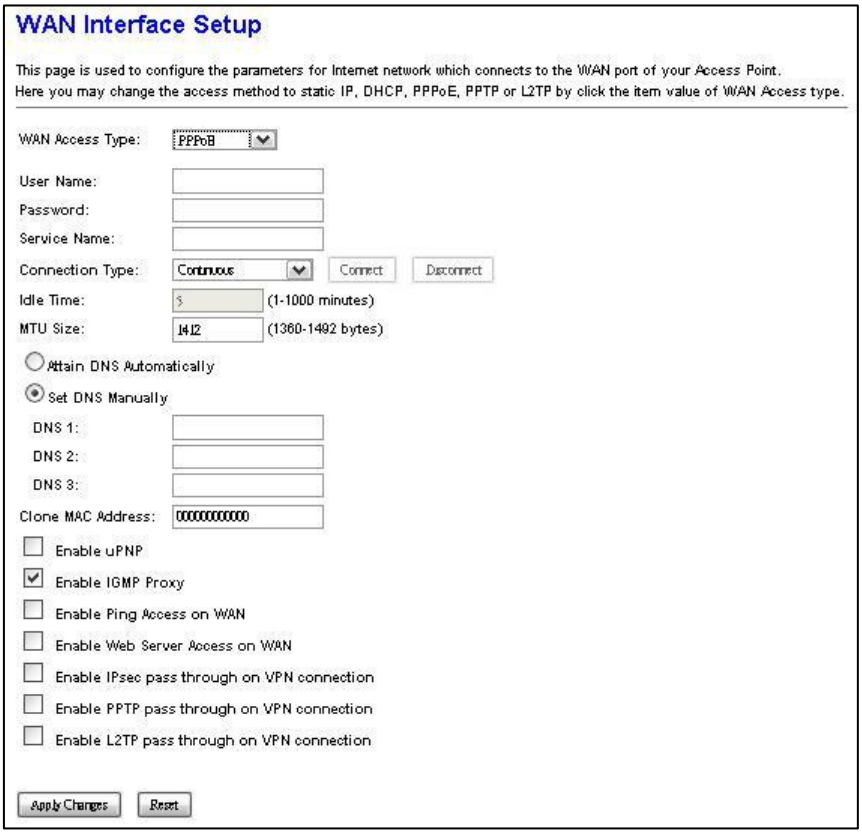
Item	Description
Static IP	Click to select Static IP support on WAN interface. There are IP address, subnet mask and default gateway settings need to be done
IP Address	If you select the Static IP support on WAN interface, fill in the IP address for it.
Subnet Mask	If you select the Static IP support on WAN interface, fill in the subnet mask for it
Default Gateway	If you select the Static IP support on WAN interface, fill in the default gateway for WAN interface out going data packets.
MTU Size	Fill in the mtu size of MTU Size. The default value is 1400
DNS 1	Enter the IP address of Domain Name Server 1.
DNS 2	Enter the IP address of Domain Name Server 2.
DNS 3	Enter the IP address of Domain Name Server 3.
Clone MAC Address	Enter the MAC address that is the MAC address to be cloned
Enable uPNP	Click the checkbox to enable uPNP function.
Enable IGMP Proxy	Click the checkbox to enable IGMP proxy
Enable Ping Access on WAN	Click the checkbox to enable WAN IGMP response.
Enable Web server Access on WAN	Click the checkbox to enable web configuration from WAN side
Enable IPsec pass through on VPN connection	Click the checkbox to enable IPSec packet pass through
Enable PPTP pass through on VPN connection	Click the checkbox to enable PPTP packet pass through
Enable L2TP pass through on VPN connection	Click the checkbox to enable L2TP packet pass through
Apply Changes	Click the ***Apply Changes*** button to complete the new configuration setting.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

DHCP Client


WAN Interface Setup
This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point.
Here you may change the access method to static IP, DHCP, PPPoE, PPTP or L2TP by click the item value of WAN Access type.
WAN Access Type:
DHCP Client
Host Name:
MTU Size:
1492
(1400-1492 bytes)
Attain DNS Automatically
Set DNS Manually
DNS 1:
DNS 2:
DNS 3:
Clone MAC Address:
000000000000
Enable uPNP
Enable IGMP Proxy
Enable Ping Access on WAN
Enable Web Server Access on WAN
Enable IPsec pass through on VPN connection
Enable PPTP pass through on VPN connection
Enable L2TP pass through on VPN connection
Apply Changes
Reset

Item	Description
DHCP Client	Click to select DHCP support on WAN interface for IP address assigned automatically from a DHCP server.
Host Name	Fill in the host name of Host Name. The default value is empty
MTU Size	Fill in the mtu size of MTU Size. The default value is 1400
Attain DNS Automatically	Click to select getting DNS address for ***DHCP*** support. Please select ***Set DNS Manually*** if the ***DHCP*** support is selected.
Set DNS Manually	Click to select getting DNS address for ***DHCP*** support.
DNS 1	Fill in the IP address of Domain Name Server 1.
DNS 2	Fill in the IP address of Domain Name Server 2.
DNS 3	Fill in the IP address of Domain Name Server 3.
Clone MAC Address	Fill in the MAC address that is the MAC address to be cloned
Enable uPNP	Click the checkbox to enable uPNP function.
Enable IGMP Proxy	Click the checkbox to enable IGMP proxy
Enable Ping Access on WAN	Click the checkbox to enable WAN IGMP response.
Enable Web server Access on WAN	Click the checkbox to enable web configuration from WAN side
Enable IPsec pass through on VPN connection	Click the checkbox to enable IPSec packet pass through
Enable PPTP pass through on VPN connection	Click the checkbox to enable PPTP packet pass through
Enable L2TP pass through on VPN connection	Click the checkbox to enable L2TP packet pass through
Apply Changes	Click the ***Apply Changes*** button to complete the new configuration setting.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

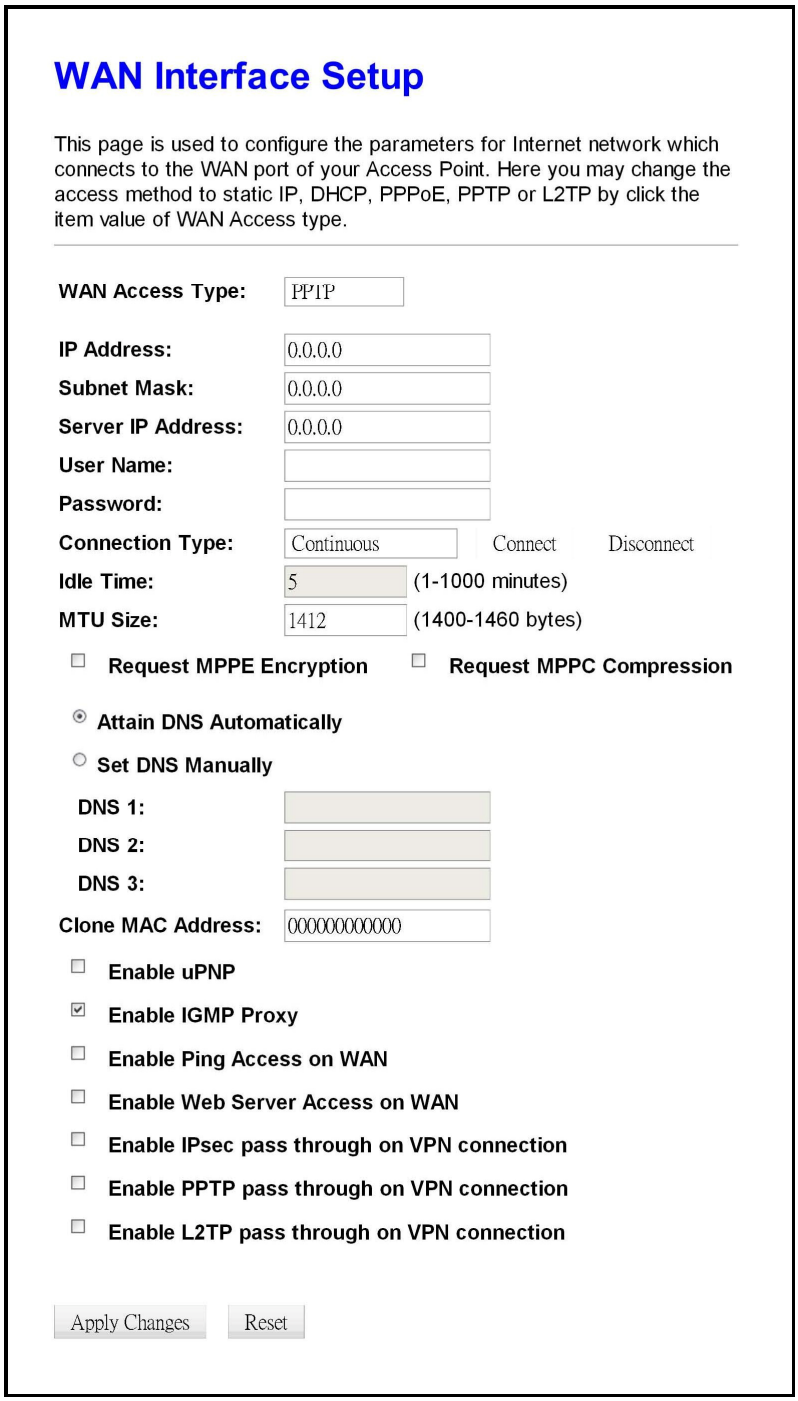
PPPoE



Item	Description
PPPoE	Click to select PPPoE support on WAN interface. There are user name, password, connection type and idle time settings need to be done.
User Name	If you select the PPPoE support on WAN interface, fill in the user name and password to login the PPPoE server.
Password	If you select the PPPoE support on WAN interface, fill in the user name and password to login the PPPoE server.
Service Name	Fill in the service name of Service Name. The default value is empty.
Connection Type	Select the connection type from pull-down menu. There are ***Continuous***, ***Connect on Demand*** and ***Manual*** three types to select. ***Continuous*** connection type means to setup the connection through PPPoE protocol whenever this WLAN Broadband Router is powered on. ***Connect on Demand*** connection type means to setup the connection through PPPoE protocol whenever you send the data packets out through the WAN interface; there are a watchdog implemented to close the PPPoE connection while there are no data sent out longer than the idle time set. ***Manual*** connection type means to setup the connection through the PPPoE protocol by clicking the ***Connect*** button manually, and clicking the ***Disconnect*** button manually.
Idle Time	If you select the ***PPPoE*** and ***Connect on Demand*** connection type, fill in the idle time for auto-disconnect function. Value can be between 1 and 1000 minutes.
MTU Size	Fill in the mtu size of MTU Size. The default value is 1400

Attain DNS Automatically	Click to select getting DNS address for ***DHCP*** support. Please select ***Set DNS Manually*** if the ***DHCP*** support is selected.
Set DNS Manually	Click to select getting DNS address for ***DHCP*** support.
DNS 1	Fill in the IP address of Domain Name Server 1.
DNS 2	Fill in the IP address of Domain Name Server 2.
DNS 3	Fill in the IP address of Domain Name Server 3.
Clone MAC Address	Fill in the MAC address that is the MAC address to be cloned
Enable uPNP	Click the checkbox to enable uPNP function.
Enable IGMP Proxy	Click the checkbox to enable IGMP proxy
Enable Ping Access on WAN	Click the checkbox to enable WAN IGMP response.
Enable Web server Access on WAN	Click the checkbox to enable web configuration from WAN side
Enable IPsec pass through on VPN connection	Click the checkbox to enable IPSec packet pass through
Enable PPTP pass through on VPN connection	Click the checkbox to enable PPTP packet pass through
Enable L2TP pass through on VPN connection	Click the checkbox to enable L2TP packet pass through
Apply Changes	Click the ***Apply Changes*** button to complete the new configuration setting.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

PPTP

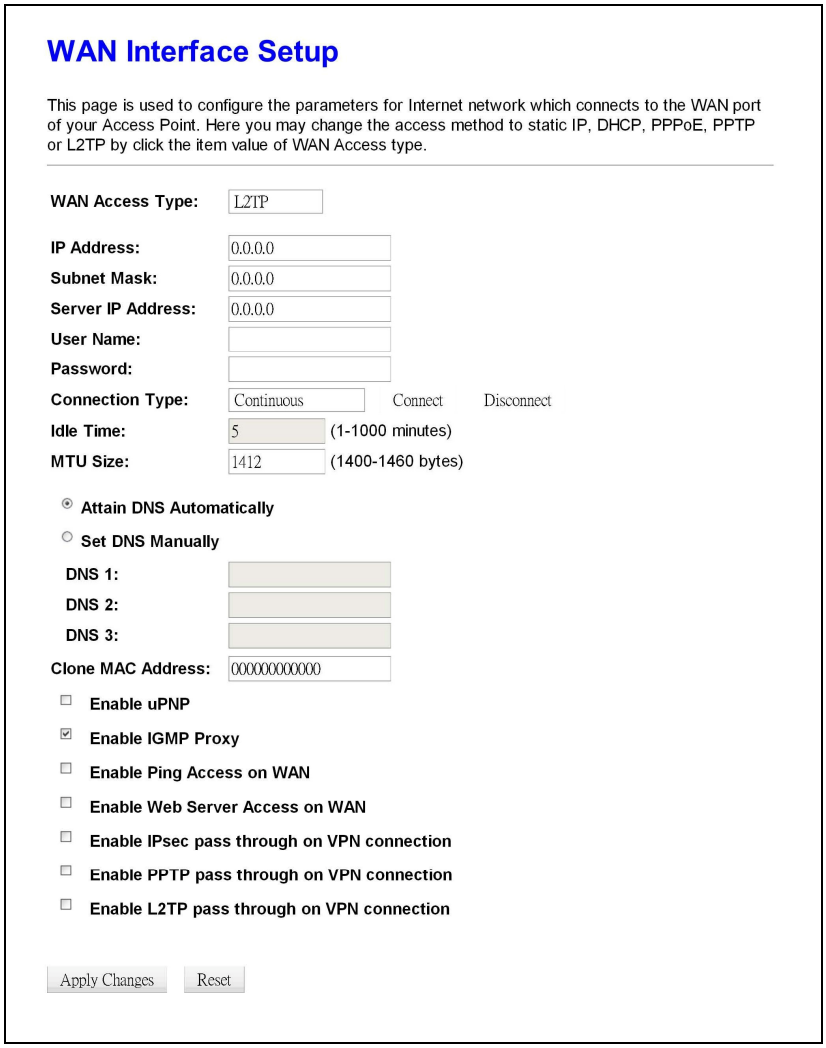

WAN Interface Setup
This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE, PPTP or L2TP by click the item value of WAN Access type.
WAN Access Type: PPTP
IP Address: 0.0.0.0
Subnet Mask: 0.0.0.0
Server IP Address: 0.0.0.0
User Name:
Password:
Connection Type: Continuous Connect Disconnect
Idle Time: 5 (1-1000 minutes)
MTU Size: 1412 (1400-1460 bytes)
Request MPPE Encryption
Request MPPC Compression
Attain DNS Automatically
Set DNS Manually
DNS 1:
DNS 2:
DNS 3:
Clone MAC Address: 000000000000
Enable uPNP
Enable IGMP Proxy
Enable Ping Access on WAN
Enable Web Server Access on WAN
Enable IPsec pass through on VPN connection
Enable PPTP pass through on VPN connection
Enable L2TP pass through on VPN connection
Apply Changes
Reset

Item	Description
PPTP	Allow user to make a tunnel with remote site directly to secure the data transmission among the connection. User can use embedded PPTP client supported by this router to make a VPN connection.
IP Address	If you select the PPTP support on WAN interface, fill in the IP address for it.
Subnet Mask	If you select the PPTP support on WAN interface, fill in the subnet mask for it.
Server IP Address	Enter the IP address of the PPTP Server.
User Name	If you select the PPTP support on WAN interface, fill in the user name and password to login the PPTP server.
Password	If you select the PPTP support on WAN interface, fill in the user name and password to login the PPTP server.
Connection Type	Select the connection type from pull-down menu. There are ***Continuous***, ***Connect on Demand*** and

	Manua*l* three types to select. ***Continuous*** connection type means to setup the connection through PPPoE protocol whenever this WLAN Broadband Router is powered on. ***Connect on Demand*** connection type means to setup the connection through PPPoE protocol whenever you send the data packets out through the WAN interface; there are a watchdog implemented to close the PPPoE connection while there are no data sent out longer than the idle time set. ***Manua****l* connection type means to setup the connection through the PPPoE protocol by clicking the ***Connect*** button manually, and clicking the ***Disconnect*** button manually.
Idle Time	The amount of time of inactivity before the device will disconnect your PPTP session.
MTU Size	Fill in the mtu size of MTU Size. The default value is 1400
Request MPPE Encryption	Click the checkbox to enable request MPPE encryption.
Request MPPC Compression	Click the checkbox to enable request MPPC compression.
Attain DNS Automatically	Click to select getting DNS address for ***DHCP*** support. Please select ***Set DNS Manua****l****y*** if the ***DHCP*** support is selected.
Set DNS Manually	Click to select getting DNS address for ***DHCP*** support.
DNS 1	Fill in the IP address of Domain Name Server 1.
DNS 2	Fill in the IP address of Domain Name Server 2.
DNS 3	Fill in the IP address of Domain Name Server 3.
Clone MAC Address	Fill in the MAC address that is the MAC address to be cloned
Enable uPNP	Click the checkbox to enable uPNP function.
Enable IGMP Proxy	Click the checkbox to enable IGMP proxy
Enable Ping Access on WAN	Click the checkbox to enable WAN IGMP response.
Enable Web server Access on WAN	Click the checkbox to enable web configuration from WAN side
Enable IPsec pass through on VPN connection	Click the checkbox to enable IPSec packet pass through
Enable PPTP pass through on VPN connection	Click the checkbox to enable PPTP packet pass through
Enable L2TP pass through on VPN connection	Click the checkbox to enable L2TP packet pass through
Apply Changes	Click the ***Apply Changes*** button to complete the new configuration setting.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

L2tP

Use Layer 2 Tunneling Protocol (L2TP) if your ISP uses an L2TP connection. Your ISP will provide you with a username and password.

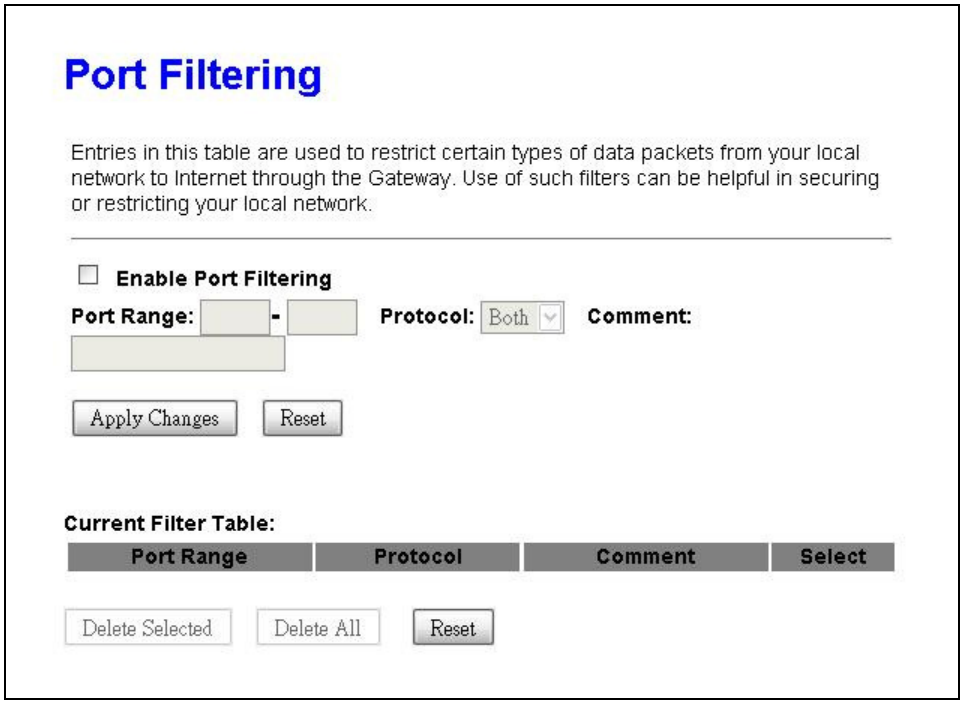

WAN Interface Setup
This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE, PPTP or L2TP by click the item value of WAN Access type.
WAN Access Type: L2TP
IP Address: 0.0.0.0
Subnet Mask: 0.0.0.0
Server IP Address: 0.0.0.0
User Name:
Password:
Connection Type: Continuous Connect Disconnect
Idle Time: 5 (1-1000 minutes)
MTU Size: 1412 (1400-1460 bytes)
Attain DNS Automatically
Set DNS Manually
DNS 1:
DNS 2:
DNS 3:
Clone MAC Address: 000000000000
Enable uPNP
Enable IGMP Proxy
Enable Ping Access on WAN
Enable Web Server Access on WAN
Enable IPsec pass through on VPN connection
Enable PPTP pass through on VPN connection
Enable L2TP pass through on VPN connection
Apply Changes
Reset

Item	Description
L2TP	Allow user to make a tunnel with remote site directly to secure the data transmission among the connection. User can use embedded PPTP client supported by this router to make a VPN connection.
IP Address	Enter L2TP IP address supplied by your ISP (Static only).
Subnet Mask	Enter subnet mask.
Server IP Address	Enter L2TP Server IP address provided by your ISP.
User Name	Enter L2TP service username provided by your ISP.
Password	Enter L2TP service password provided by your ISP.
Connection Type	Select the connection type from pull-down menu. There are ***Continuous***, ***Connect on Demand*** and ***Manual*** three types to select. ***Continuous*** connection type means to setup the connection through L2TP protocol whenever this WLAN Broadband Router is powered on. ***Connect on Demand*** connection type means to setup the connection through L2TP protocol whenever you send the data packets out through the WAN interface; there are a watchdog implemented to close the L2TP connection while there are no data sent out longer than the idle time set. ***Manual*** connection type means to setup the connection through the L2TP protocol by clicking the ***Connect*** button manually, and clicking the ***Disconnect*** button manually.
Idle Time	The amount of time of inactivity before the device will disconnect your L2TP session.

MTU Size	Change the MTU size that your ISP provided. The default value is 1400 and range is 1400 to 1460 bytes.
Attain DNS Automatically	Click to get DNS IP address automatically.
Set DNS Manually	Enter DNS IP address provided by your ISP manually.
DNS 1	Enter the IP address of Domain Name Server 1.
DNS 2	Enter the IP address of Domain Name Server 2.
DNS 3	Enter the IP address of Domain Name Server 3.
Clone MAC Address	Clone MAC address of your computer.
Enable uPNP	Click the checkbox to enable uPNP function.
Enable IGMP Proxy	Click the checkbox to enable IGMP proxy
Enable Ping Access on WAN	Click the checkbox to enable WAN IGMP response.
Enable Web server Access on WAN	Click the checkbox to enable web configuration from WAN side
Enable IPsec pass through on VPN connection	Click the checkbox to enable IPSec packet pass through
Enable PPTP pass through on VPN connection	Click the checkbox to enable PPTP packet pass through
Enable L2TP pass through on VPN connection	Click the checkbox to enable L2TP packet pass through
Apply Changes	Click the ***Apply Changes*** button to complete the new configuration setting.

Firewall - Port Filtering

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

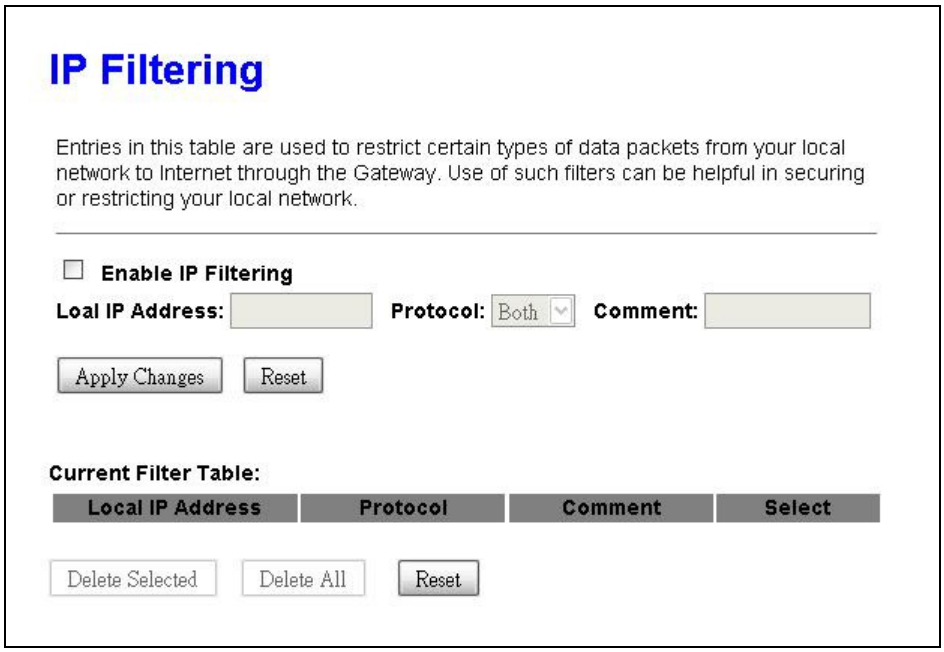


Item	Description
Enable Port Filtering	Click to enable the port filtering security function.
Port Range Protocol, Comments	To restrict data transmission from the local network on certain ports, fill in the range of Start-port and end-port, and the protocol, also put your comments on it. The ***Protocol*** can be TCP, UDP or Both. ***Comments*** let you know about whys to restrict data from the ports.
Apply Changes	Click the ***Apply Changes*** button to register the ports to port filtering list.

Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.
Delete Selected	Click to delete the selected port range that will be removed from the port-filtering list.
Delete All	Click to delete all the registered entries from the port-filtering list.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

Firewall - IP Filtering

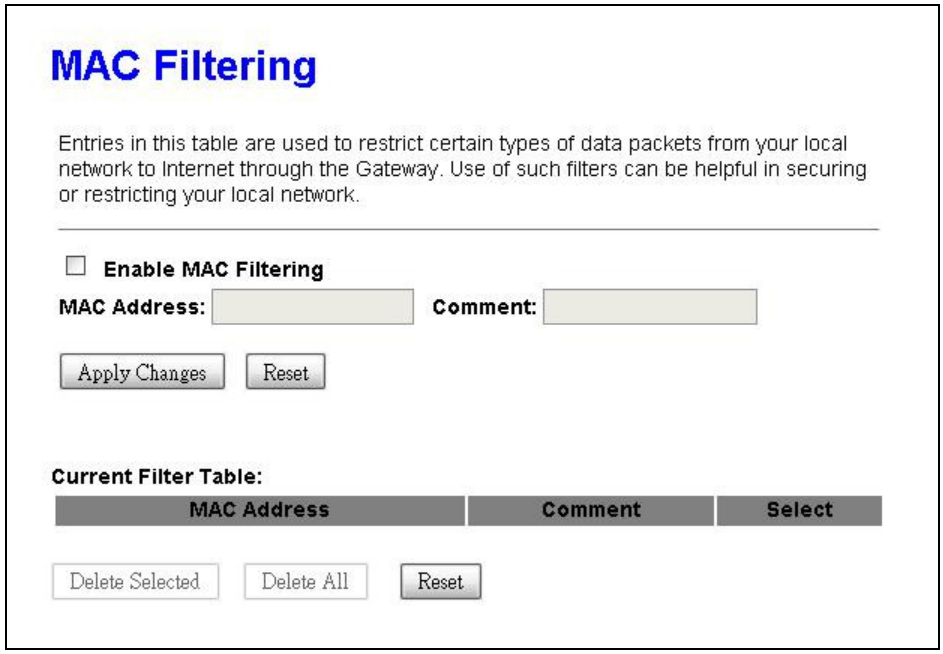
Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.



Item	Description
Enable IP Filtering	Click to enable the IP filtering security function.
Local IP Address; Protocol; Comments	To restrict data transmission from local network on certain IP addresses, fill in the IP address and the protocol; also put your comments on it. The ***Protocol*** can be TCP, UDP or Both. ***Comments*** let you know about whys to restrict data from the IP address.
Apply Changes	Click the ***Apply Changes*** button to register the IP address to IP filtering list.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.
Delete Selected	Click to delete the selected IP address that will be removed from the IP-filtering list.
Delete All	Click to delete all the registered entries from the IP-filtering list.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

Firewall - MAC Filtering

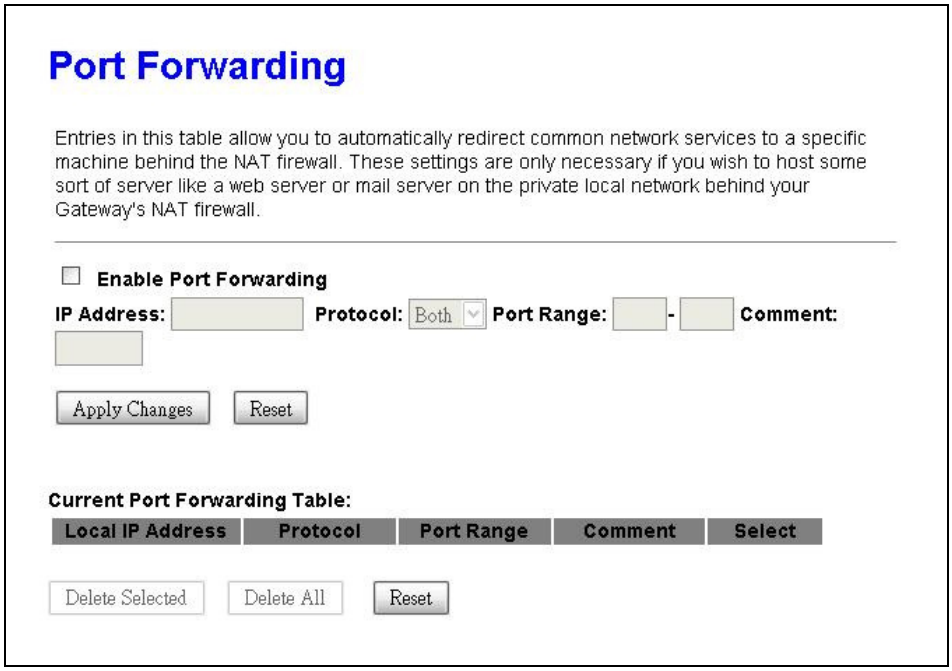
Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.


MAC Filtering
Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.
Enable MAC Filtering
MAC Address:
Comment:
Apply Changes
Reset
Current Filter Table:
MAC Address
Comment
Select
Delete Selected
Delete All
Reset

Item	Description
Enable MAC Filtering	Click to enable the MAC filtering security function.
MAC Address; Comments	To restrict data transmission from local network on certain MAC addresses, fill in the MAC address and your comments on it. ***Comments*** let you know about whys to restrict data from the MAC address.
Apply Changes	Click the ***Apply Changes*** button to register the MAC address to MAC filtering list.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.
Delete Selected	Click to delete the selected MAC address that will be removed from the MAC-filtering list.
Delete All	Click to delete all the registered entries from the MAC-filtering list.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

Firewall - Port Forwarding

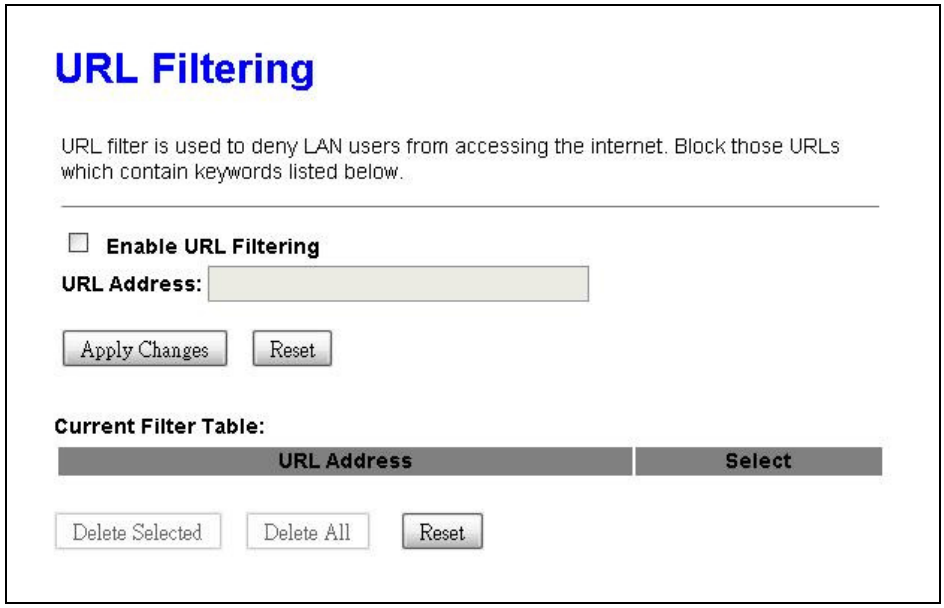
Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the private local network behind your Gateway's NAT firewall.


Port Forwarding
Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the private local network behind your Gateway's NAT firewall.
Enable Port Forwarding
IP Address:
Protocol:
Both
Port Range:
Comment:
Apply Changes
Reset
Current Port Forwarding Table:
Local IP Address
Protocol
Port Range
Comment
Select
Delete Selected
Delete All
Reset

Item	Description
Enable Port Forwarding	Click to enable the Port Forwarding security function.
Local IP Address Protocol Port Range Comment	To forward data packets coming from WAN to a specific IP address that hosted in local network behind the NAT firewall, fill in the IP address, protocol, port range and your comments. The ***Protocol*** can be TCP, UDP or Both. The ***Port Range*** for data transmission. ***Comments*** let you know about whys to allow data packets forward to the IP address and port number.
Apply Changes	Click the ***Apply Changes*** button to register the IP address and port number to Port forwarding list.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.
Delete Selected	Click to delete the selected IP address and port number that will be removed from the port-forwarding list.
Delete All	Click to delete all the registered entries from the port-forwarding list.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

Firewall – URL Filtering

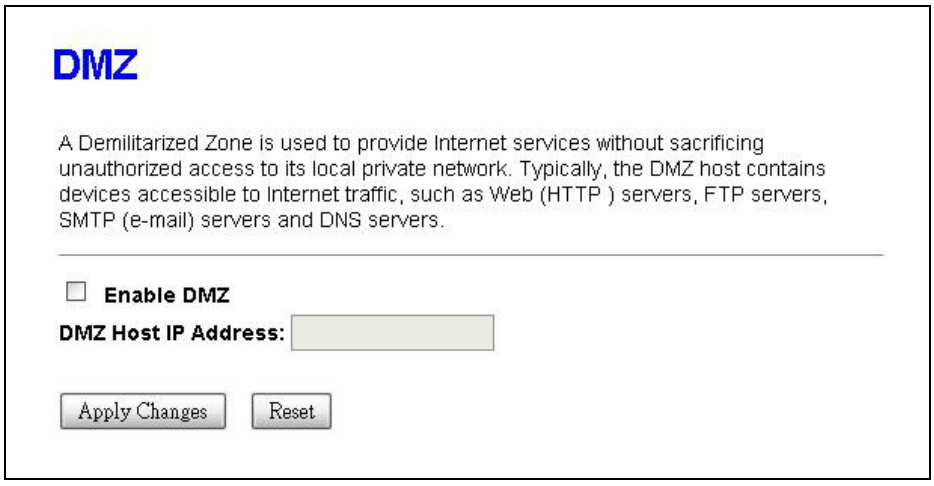
URL Filtering is used to restrict users to access specific websites in internet.



Item	Description
Enable URL Filtering	Click to enable the URL Filtering function.
URL Address	Add one URL address.
Apply Changes	Click the ***Apply Changes*** button to save settings.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.
Delete Selected	Click to delete the selected URL address that will be removed from the URL Filtering list.
Delete All	Click to delete all the registered entries from the URL Filtering list
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

Firewall - DMZ

A Demilitarized Zone is used to provide Internet services without sacrificing unauthorized access to its local private network. Typically, the DMZ host contains devices accessible to Internet traffic, such as Web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers.

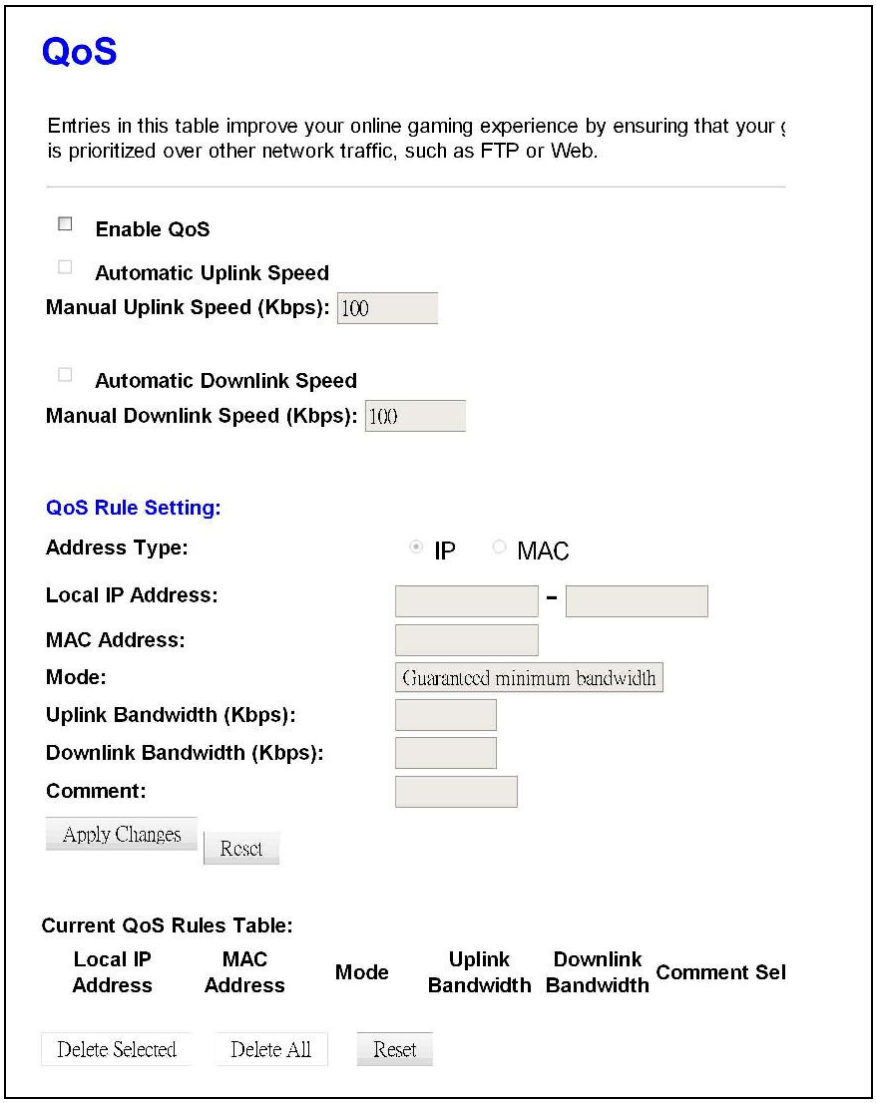

DMZ
A Demilitarized Zone is used to provide Internet services without sacrificing unauthorized access to its local private network. Typically, the DMZ host contains devices accessible to Internet traffic, such as Web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers.
Enable DMZ
DMZ Host IP Address:
Apply Changes
Reset

Item	Description
Enable DMZ	Click to enable the DMZ function.
DMZ Host IP Address	To support DMZ in your firewall design, fill in the IP address of DMZ host that can be access from the WAN interface.
Apply Changes	Click the ***Apply Changes*** button to register the IP address of DMZ host.

Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

QoS

Entries in this table improve your online gaming experience by ensuring that your game traffic is prioritized over other network traffic, such as FTP or Web

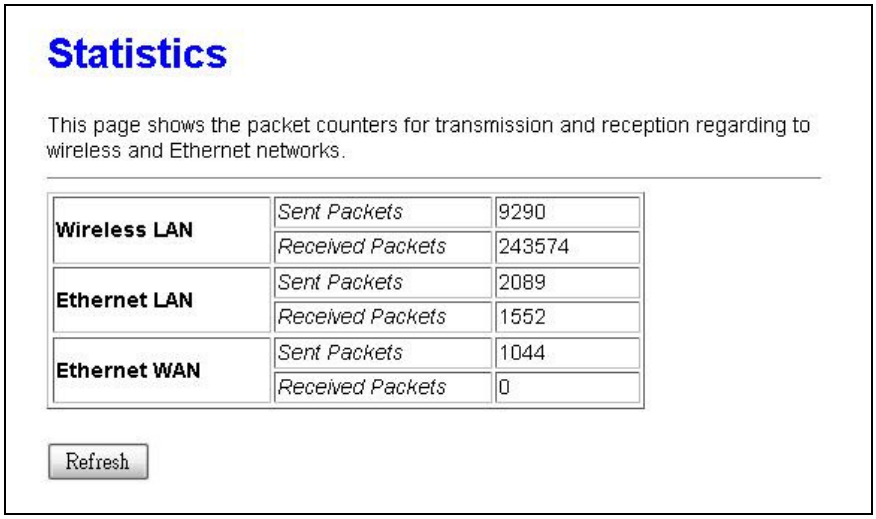


Item	Description
Enable QoS	Click to enable the QoS function.
Automatic Uplink Speed	Click checkbox to enable uplink automatic bandwidth control.
Manually Uplink Speed [Kbps]	Enter uplink speed in Kbps to constrain maximum uplink bandwidth capacity.
Automatic downlink Speed [Kbps]	Click checkbox to enable downlink automatic bandwidth control.
QoS Rule Setting	
Address Type	Select IP address or MAC address
Local IP Address	Enter local IP address range
MAC Address	Enter MAC address you are going to control.
Mode	Select band width control type ***Guaranteed minimum bandwidth*** or ***Restricted maximum bandwidth***.
Uplink Bandwidth	Enter uplink bandwidth in Kbps
Downlink Bandwidth	Enter downlink bandwidth in Kbps
Comment	Give a definition to the setting
Apply Changes	Click the ***Apply Changes*** button to save the settings

Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.
Current QoS Rule Table	
Local IP Address	List LAN IP address that is controlled.
MAC Address	List MAC address that is controlled.
Mode	List control type that is controlled. ***Guaranteed minimum bandwidth*** or ***Restricted maximum bandwidth***.
Uplink Bandwidth	List uplink bandwidth
Download Bandwidth	List Download bandwidth
Comment	Definition of the setting
Select	Click to select rule for further action.
Delete Selected	Delete selected rules.
Delete All	Delete all rules listed on table.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

Management - Statistics

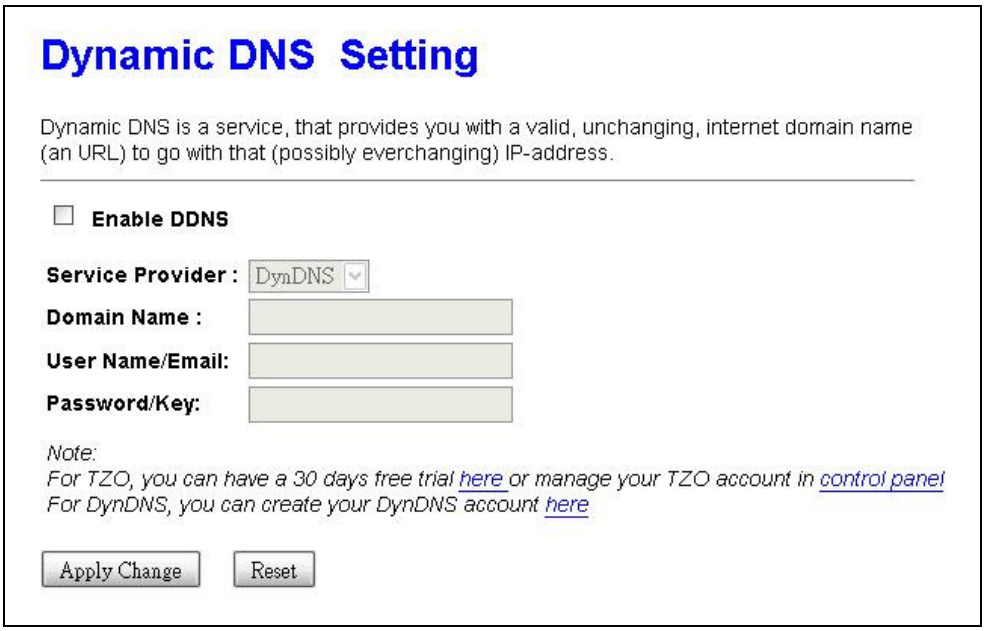
This page shows the packet counters for transmission and reception regarding to wireless, Ethernet LAN and Ethernet WAN networks.



Item	Description
Wireless LAN	
Sent Packets	It shows the statistic count of sent packets on the wireless LAN interface.
Received Packets	It shows the statistic count of received packets on the wireless LAN interface.
Ethernet LAN	
Sent Packets	It shows the statistic count of sent packets on the Ethernet LAN interface.
Received Packets	It shows the statistic count of received packets on the Ethernet LAN interface.
Ethernet WAN	
Sent Packets	It shows the statistic count of sent packets on the Ethernet WAN interface.
Received Packets	It shows the statistic count of received packets on the Ethernet WAN interface.
Refresh	Click the refresh the statistic counters on the screen.

Management - DDNS

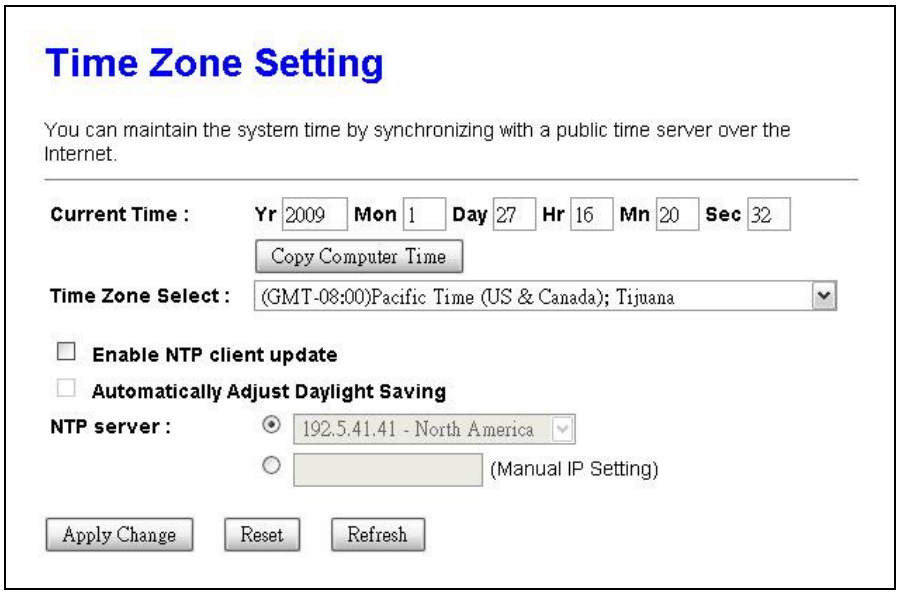
This page is used to configure Dynamic DNS service to have DNS with dynamic IP address.


Dynamic DNS Setting
Dynamic DNS is a service, that provides you with a valid, unchanging, internet domain name (an URL) to go with that (possibly everchanging) IP-address.
Enable DDNS
Service Provider :
DynDNS
Domain Name :
User Name/Email:
Password/Key:
Note:
For TZO, you can have a 30 days free trial here or manage your TZO account in control panel
For DynDNS, you can create your DynDNS account here
Apply Change
Reset

Item	Description
Enable DDNS	Click the checkbox to enable *DDNS* service.
Service Provider	Click the drop down menu to pick up the right provider.
Domain Name	To configure Domain Name.
User Name/Email	Configure User Name, Email.
Password/Key	Configure Password, Key.
Apply Change	Click the ***Apply Changes*** button to save the enable DDNS service.
Reset	Click the ***Reset*** button to abort change and recover the previous configuration setting.

Management - Time Zone Setting

This page is used to configure NTP client to get current time.

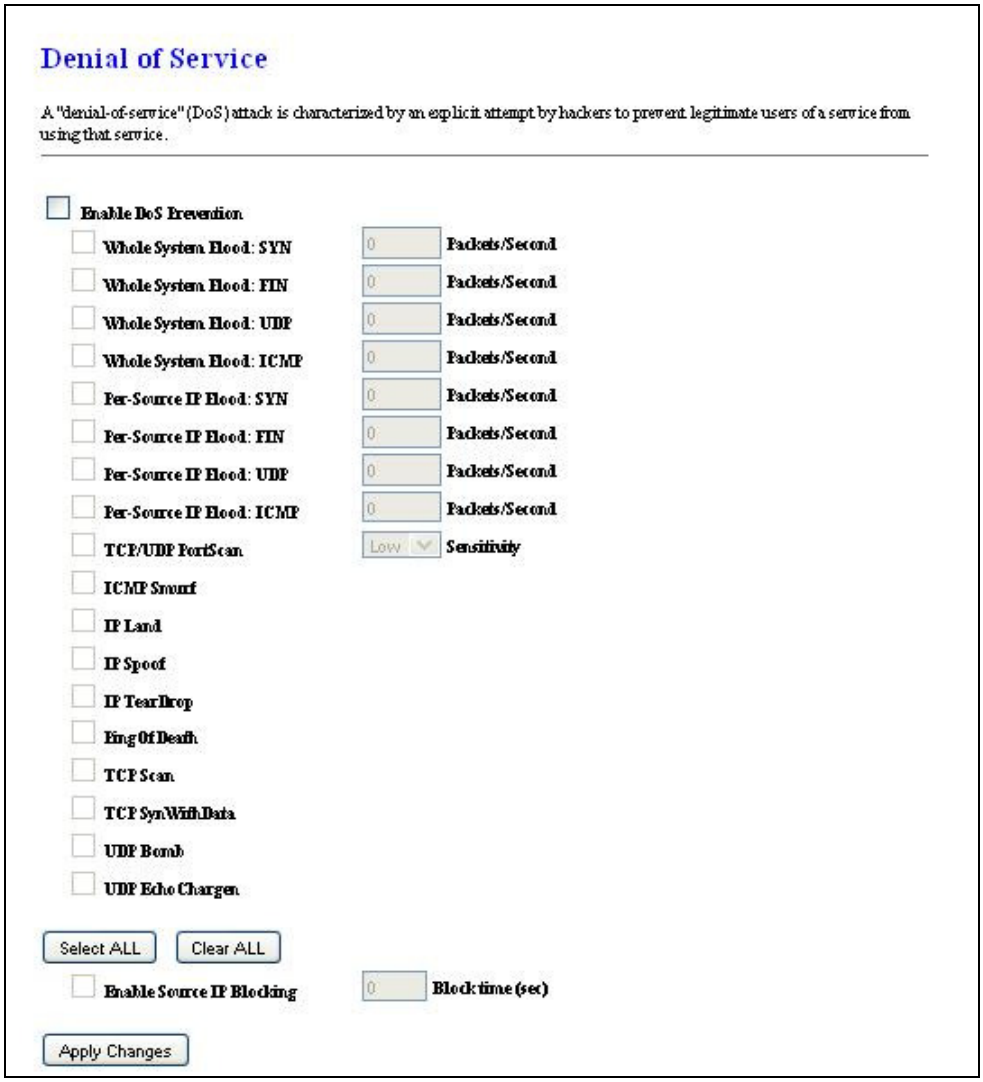

Time Zone Setting
You can maintain the system time by synchronizing with a public time server over the Internet.
Current Time :
Yr 2009 Mon 1 Day 27 Hr 16 Mn 20 Sec 32
Copy Computer Time
Time Zone Select :
(GMT-08:00)Pacific Time (US & Canada); Tijuana
Enable NTP client update
Automatically Adjust Daylight Saving
NTP server :
192.5.41.41 - North America
(Manual IP Setting)
Apply Change
Reset
Refresh

Item	Description
Current Time	It shows the current time.
Time Zone Select	Click the time zone in your country.
Enable NTP client update	Click the checkbox to enable NTP client update. R
NTP Server	Click select default or input NTP server IP address.
Apply Change	Click the *Apply Changes* button to save and enable NTP

	client service.
Reset	Click the *Reset* button to abort change and recover the previous configuration setting.
Refresh	Click the refresh the current time shown on the screen.

Management – Denial-of-Service

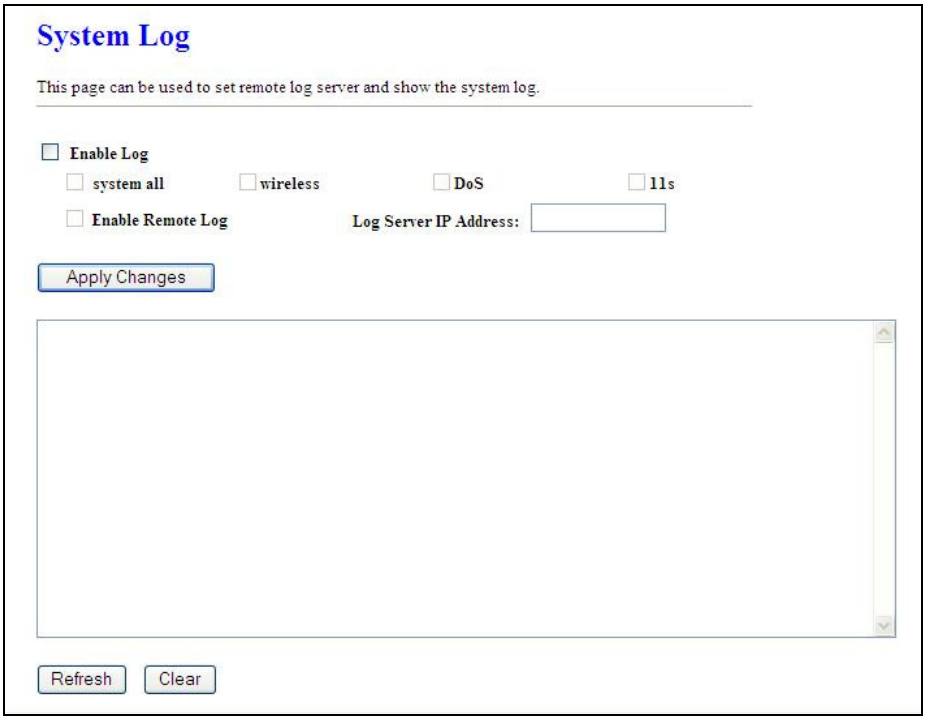
This page is used to enable and setup protection to prevent attack by hacker's program. It provides more security for users.



Item	Description
Enable DoS Prevention	Click the checkbox to enable DoS prevention.
Whole System Flood/ Per-Source IP Flood	Enable and setup prevention in details.
Select ALL	Click the checkbox to enable all prevention items.
Clear ALL	Click the checkbox to disable all prevention items
Apply Changes	Click the *Apply Changes* button to save above settings.

Management - Log

This page is used to configure the remote log server and shown the current log.



Item	Description
Enable Log	Click the checkbox to enable log.
System all	Show all log of wireless broadband router
Wireless	Only show wireless log
DoS	Only show Denial-of-Service log
Enable Remote Log	Click the checkbox to enable remote log service.
Log Server IP Address	Input the remote log IP address
Apply Changes	Click the ***Apply Changes*** button to save above settings.
Refresh	Click the refresh the log shown on the screen.
Clear	Clear log display screen

Management - Upgrade Firmware

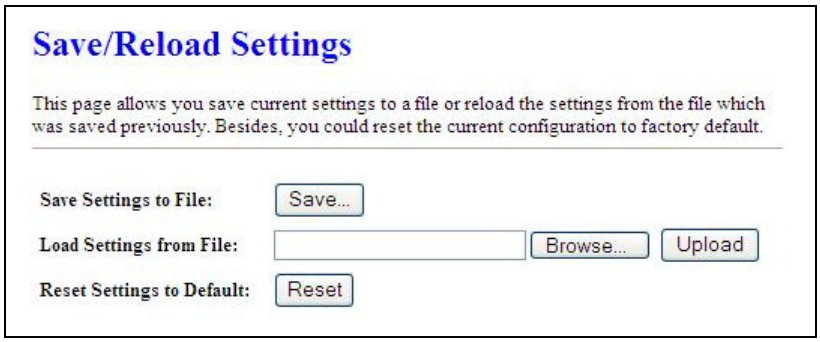
This page allows you upgrade the Access Point firmware to new version. Please note, do not power off the device during the upload because it may crash the system.

Upgrade Firmware
This page allows you upgrade the Access Point firmware to new version. Please note, do not power off the device during the upload because it may crash the system.
Select File:
Browse...
Upload
Reset

Item	Description
Select File	Click the *Browse* button to select the new version of web firmware image file.
Upload	Click the *Upload* button to update the selected web firmware image to the WLAN Broadband Router.
Reset	Click the *Reset* button to abort change and recover the previous configuration setting.

Management Save/ Reload Settings

This page allows you save current settings to a file or reload the settings from the file that was saved previously. Besides, you could reset the current configuration to factory default.


Save/Reload Settings
This page allows you save current settings to a file or reload the settings from the file which was saved previously. Besides, you could reset the current configuration to factory default.
Save Settings to File:
Save...
Load Settings from File:
Browse...
Upload
Reset Settings to Default:
Reset

Item	Description
Save Settings to File	Click the ***Save*** button to download the configuration parameters to your personal computer.
Load Settings from File	Click the ***Browse*** button to select the configuration files then click the ***Upload*** button to update the selected configuration to the WLAN Broadband Router.
Reset Settings to Default	Click the ***Reset*** button to reset the configuration parameter to factory defaults.

Management - Password Setup

This page is used to set the account to access the web server of Access Point. Empty user name and password will disable the protection.

Password Setup
This page is used to set the account to access the web server of Access Point. Empty user name and password will disable the protection.
User Name:
New Password:
Confirmed Password:
Apply Changes
Reset

Item	Description
User Name	Fill in the user name for web management login control.
New Password	Fill in the password for web management login control.
Confirmed Password	Because the password input is invisible, so please fill in the password again for confirmation purpose.
Apply Changes	Clear the *User Name* and *Password* fields to empty, means to apply no web management login control. Click the *Apply Changes* button to complete the new configuration setting.
Reset	Click the *Reset* button to abort change and recover the previous configuration setting.